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## TABLE OF CONTENTS

### Mathematics

Word Problems and Operations.....	1 -	12
Data Sufficiency .....	13 -	16

### English

Alphabetizing .....	17 -	21
Synonyms .....	22 -	26
Antonyms .....	27 -	31
Single-Word Analogy .....	32 -	35
Double-Word Analogy .....	36 -	40
Identifying Errors .....	41 -	48
Paragraph Development .....	49 -	51
Correct Usage .....	52 -	56
Reading Comprehension .....	57 -	69

### Filipino

Kasing-Kahulugan .....	70 -	72
Kasalungat .....	73 -	76
Mga Kawikaan .....	77 -	80
Wastong Gamit .....	81 -	84
Pagkilala sa Mali .....	85 -	88
Pag-unawa sa Binasa .....	89 -	96
Pagtatalata .....	97 -	99

<b>Philippine Constitution .....</b>	<b>100 -</b>	<b>104</b>
<b>Inductive Reasoning .....</b>	<b>105 -</b>	<b>108</b>
<b>Abstract Reasoning .....</b>	<b>109 -</b>	<b>116</b>
<b>Answer Keys,Solutions and Explanations ..</b>	<b>119 -</b>	<b>155</b>

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## Mathematics

**DIRECTIONS:** This is a test of your ability to think out solutions to quantitative problems in Mathematics. Analyze and solve each problem carefully. Determine the correct answer from the four choices **a**, **b**, **c**, **d**. After you have decided on the best answer, shade the oval above the letter that corresponds to your answer.

1. Find the sum:  $299 + 943 + 398 + 101$ .
- a  b  c  d
- a) 1 531      b) 1 641      c) 1 741      d) 122 222
2. If  $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$ , then  $11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 = ?$
- a  b  c  d
- a) 65      b) 155      c) 125      d) 550
3. If  $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$ , then  $101 + 102 + 103 + 104 + 105 + 106 + 107 + 108 + 109 + 110 = ?$
- a  b  c  d
- a) 1 055      b) 1 065      c) 1 075      d) 5 500
4. Evaluate:  $\{ 16 - (24 - 8) + 22 \times 8 - 8 \}$ .
- a  b  c  d
- a) 40      b) 48      c) 64      d) 168
5. If  $23 + 28 + 37 + x + 53 = 168$  and  $23 + 28 + 40 + y + 50 = 120$ . Find the value of  $x - y$ ?
- a  b  c  d
- a) 36      b) 48      c) 56      d) 64
6. Find the product:  $800 \times 125$ .
- a  b  c  d
- a) 925      b) 1000      c) 10 000      d) 100 000
7. Find the quotient:  $8000 \div 125$ .
- a  b  c  d
- a) 48      b) 64      c) 80      d) 88

8. What is the remainder when 192 888 is divided by 8?    0 0 0 0  
a b c d
- a) 0      b) 4      c) 8      d) 24 111
9. Rounding 299 943 to the nearest thousands the result is 0 0 0 0  
a b c d
- a) 299 940      c) 299 900  
b) 299 000      d) 300 000
10. 398.101 is read as 0 0 0 0  
a b c d
- a) three hundred ninety eight, one hundred one.  
b) three hundred ninety eight and one hundred one.  
c) three hundred ninety eight and one hundred one hundredths.  
d) three hundred ninety eight and one hundred one thousandths.
11. A number is divisible by 8 if its last three digits is divisible by 8. Which of the following numbers is divisible by 8? 0 0 0 0  
a b c d
- a) 9 208      b) 6 236      c) 88 254      d) 8 886
12. Which of the following statements is *true*? 0 0 0 0  
a b c d
- a) If a number is divisible by 5, then it is divisible by 10.  
b) If a number is divisible by 10, then it is divisible by 5.  
c) If a number is divisible by 3, then it is divisible by 6.  
d) If a number is divisible by 4, then it is divisible by 8.
13. Simplify:  $\frac{1}{2}(128 - 84) + (128 - 84) - \frac{1}{2}(128 - 84)$  0 0 0 0  
a b c d
- a) 0      b) 20      c) 44      d) 64
14. Simplify:  $33\frac{1}{3}\% \text{ of } 48 + 12\frac{1}{2}\% \text{ of } 96 - 44\frac{4}{9}\% \text{ of } 27$  0 0 0 0  
a b c d
- a) 12      b) 16      c) 24      d) 48

15. Reduce  $\frac{231}{1001}$  to its lowest terms.

0 0 0 0  
a b c d

- a)  $\frac{7}{11}$       b)  $\frac{3}{31}$       c)  $\frac{3}{13}$       d)  $\frac{7}{13}$

16. Which of the following is *true*?

0 0 0 0  
a b c d

- a)  $-16 > 8$       c)  $54 - 8 \geq 8 - 54$   
b)  $\frac{8}{64} = \frac{1}{4}$       d)  $\frac{9}{117} = \frac{1}{17}$

17. Find the value of  $x$ :  $x = \left[ \frac{3}{8}(72) + \frac{5}{7}(35) \right]$

0 0 0 0  
a b c d

- a) 27      b) 36      c) 45      d) 52

18. What is 25% of 228?

0 0 0 0  
a b c d

- a) 52      b) 57      c) 54      d) 912

19. 228 is 25% of what number?

0 0 0 0  
a b c d

- a) 52      b) 57      c) 54      d) 912

20. 168 is what percent of 672?

0 0 0 0  
a b c d

- a) 25%      b) 50%      c) 400%      d) 80%

21. Evaluate:  $123 \times 0.1 + 123 \times 0.01 + 123 \times 0.001$ .

0 0 0 0  
a b c d

- a) 13.653      b) 135.53      c) 1 356.3      d) 13 563

22. Find  $3\frac{1}{4}$  of 16.

0 0 0 0  
a b c d

- a) 7      b) 16      c) 39      d) 52

23. Evaluate:  $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} = ?$

0 0 0 0  
a b c d

- a)  $1\frac{3}{16}$       b)  $1\frac{3}{8}$       c)  $1\frac{5}{8}$       d)  $1\frac{7}{8}$

24. Find the value of  $x$  in the equation  $3x + 7 = 28$ .

0 0 0 0  
a b c d

- a) {7}      b) {-7}      c) {±7}      d) {4}

25. Which of the following has the greatest value?

0 0 0 0  
a b c d

- a)  $\frac{8}{(6^2)(8^2)}$       c)  $\frac{1}{(6^3)(8^2)}$   
b)  $\frac{16}{(6^2)(8^2)}$       d)  $\frac{168}{(6^4)(8^3)}$

26. Which of the following *cannot* yield an odd integer when divided by 10?

0 0 0 0  
a b c d

- a) The sum of two odd integers.  
b) The product of a prime number and an odd integer.  
c) The product of two odd integers.  
d) The sum of three consecutive integers.

27. If  $8x + 12 = 24$ , what is the value of  $24x + 36$ ?

0 0 0 0  
a b c d

- a) 4      b) 6      c) 8      d) 72

28. If a positive integer  $m$  is divisible by both 3 and 8, then  $m$  must also be divisible by

0 0 0 0  
a b c d

- a) 10      b) 18      c) 24      d) 60

29. If positive integers  $m$  and  $n$  are not both odd, which of the following is *always* true? 0000  
a b c d
- a)  $m + n$  is even
  - c)  $m - n$  cannot be odd
  - b)  $mn$  is even
  - d)  $m + n - 1$  is odd
30. Find the average temperature change for the 12-day period. Temperature change in degree celsius: 2.6, 3.8, 7.0, 4.5, 4.6, 7.9, 5.0, 8.1, 4.4, 5.3, 6.4, 5.2. 0000  
a b c d
- a) 4.8
  - b) 4.9
  - c) 5.2
  - d) 5.4
31. Find the set of all odd numbers  $x$  satisfying the conditions  $5x - 4 \leq 0$  and  $3x - 7 \geq 0$ . 0000  
a b c d
- a)  $\{x \mid x \neq 1\}$
  - c)  $\{x \mid x \in \mathbb{R}\}$
  - b)  $\{1\}$
  - d)  $\{\}$
32. State the property illustrated. 0000  
a b c d  
 If  $8(6) + 4 = 48 + 4$  and  $48 + 4 = 52$   
 then  $8(6) + 4 = 52$
- a) distributive property of multiplication over addition
  - b) commutative property of addition
  - c) associative property
  - d) transitive property of equality
33. If 8 less than the product of a number and  $-3$  is greater than 7, which of the following could be that number? 0000  
a b c d
- a)  $-6$
  - b)  $-5$
  - c)  $5$
  - d)  $6$
34. The difference between 8 times a number and 17 is 231. Find the number. 0000  
a b c d
- a) 31
  - b) 37
  - c) 48
  - d) 1984

## **Mathematics**

35. Four times the perimeter of a parking lot is 16 less than 2 000 meters. What is the perimeter of the lot?

a) 496 m      b) 504 m      c) 992 m    d) 1 008 m

36. The amount of last month's telephone bill, decreased by the product of 3 and P 30.00 equals P 1 319.50. Find the amount of the bill.

a) P1 229.50 c) P 1 310.50

b) P1 289.50 d) P1 409.50

37. Eighteen less than seven times the number of sandwiches is 269. How many sandwiches are there? 0 0 0  
a b c d

a) 32      b) 41      c) 44      d) 45

38. A house and lot are sold for P 14 M. The house costs 1.5 times as much as the lot. How much does the lot costs? a b c d

a) P5.6M      b) P8.4M      c) P 10.5M    d) P 21M

39. The sale price of a television set is P 7 200. The discount rate is 40%. Find its regular price.

b) P 12 000 d) P 10 000

40. The lengths of the sides of a triangle can be represented by three consecutive integers. The perimeter of the triangle is 96 cm. Find the length of the longest side of the triangle.

a) 28                  b) 32                  c) 33                  d) 36

41. The length of a rectangle is 8 meters more than twice its width. The perimeter is 112 meters. Find its area.

a) 16 m      b) 24 m      c)  $28 \text{ m}^2$       d)  $640 \text{ m}^2$

42. Paula is twice as old as Queenie. Seven years ago the sum of their ages was 16. How old is Queenie now?      0 0 0 0  
a b c d
- a) 8                  b) 10                  c) 16                  d) 20
43. For what value of  $x$  will  $x$  be the average of 2,  $4x$ , 6, 8, 10 ?      0 0 0 0  
a b c d
- a) 4                  b) 12                  c) 26                  d) 39
44. How many integers between 197 and 303 are divisible by 4 or 10 ?      0 0 0 0  
a b c d
- a) 25                  b) 26                  c) 31                  d) 37
45. A patient must take his medication every 7 hours starting at 7:00 A.M., Sunday. On what day will the patient first receive his medication at 8 A.M.?      0 0 0 0  
a b c d
- a) Sunday                  c) Thursday  
b) Wednesday                  d) Tuesday
46. Of the 300 grocery shoppers surveyed, 96 did not have a regular day of the week on which they shop. What percentage of the shoppers did not have a regular day of shopping?      0 0 0 0  
a b c d
- a) 32%                  b) 48%                  c) 64%                  d) 96%
47. A water container has 100 ml of water in it and is 20% full. How many ml of water can this container hold if it is full?      0 0 0 0  
a b c d
- a) 200 ml                  b) 400 ml                  c) 500 ml                  d) 800 ml
48. How many containers each occupies an area of  $2\frac{1}{8}$  square meters can be stored in a 952- square meter warehouse?      0 0 0 0  
a b c d
- a) 358                  b) 448                  c) 530                  d) 630

49. A starting salary of a secretary at ABC Computer Specialists is P15,000 a month. Next year the starting salary will be raised to P18, 000. What is the rate of increase in the starting salary? 0 0 0 0  
a b c d
- a) 3%      b) 20%      c) 25%      d) 30%
50. The cost of a square meter commercial lot in a certain municipality five years ago was P 12 500. There was a 420% increase in the price in the last five years. What is the price per square meter of that lot today? 0 0 0 0  
a b c d
- a) P 17 500      c) P 19 000  
b) P 52 500      d) P 65 000
51. Last month a store manager decided to decrease the prices of all items by 10%. This month he increased the prices by 10%. What would be the price for a pair of pants that had cost P750 before prices were decreased last month? 0 0 0 0  
a b c d
- a) P 742.50      c) P 675.00  
b) P 750.00      d) P 825.00
52. When the original price of an item is increased by a certain rate, the increased price is P3 100. When the original price is decreased by the same rate, the decreased price is P 1 900. What is the original price of this item? 0 0 0 0  
a b c d
- a) P 1 200      b) P 200      c) P 2 500      d) P 2 800
53. How much must one has to invest in corporate bonds paying 9.6% in order to earn an income of P 12,000 per annum? 0 0 0 0  
a b c d
- a) P 11 520      c) P 125 000  
b) P 23 040      d) P 250 000

54. How much must be cut from the edge of a piece of glass 0 0 0  
a b c d  
 $16 \frac{1}{8}$  cm wide, in order for it to fit into an opening  $14 \frac{3}{4}$  cm wide?

a)  $2 \frac{3}{8}$  cm    b)  $1 \frac{7}{8}$  cm    c)  $1 \frac{3}{8}$  cm    d)  $2 \frac{5}{8}$  cm

55. A race car traveled for  $2 \frac{1}{2}$  hours with an average speed of 0 0 0  
a b c d  
 $132 \frac{5}{8}$  km per hour. Find the total distance it covered.

a)  $264 \frac{5}{16}$  km    c)  $330 \frac{5}{16}$  km  
 b)  $331 \frac{9}{16}$  km    d)  $135 \frac{1}{8}$  km

56. If the weight of a 241-kg freight car increases  $3 \frac{1}{8}$  times when fully loaded, what will be its weight with a 0 0 0  
a b c d  
 full load?

a)  $750 \frac{3}{8}$  kg    c)  $720 \frac{5}{8}$  kg  
 b)  $824 \frac{3}{8}$  kg    d)  $753 \frac{1}{8}$  kg

57. How many liters will remain in a 1000-liter storage tank 0 0 0  
a b c d  
 if 8.2% of the liquid has evaporated due to excessive heat?

a) 918    b) 991.8    c) 999.18    d) 998

**Mathematics**

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58. Dante recently sold some stocks for which he originally bought for P358. If it has increased in value by 116%, how much did he receive for the stock? 0 0 0 0  
a b c d
- a) P 678.28      b) P 772      c) P 773.28      d) P 778
59. Mr. Manny Vargas, a real estate broker sold a building for P 175M. How much did he receive if his commission is 5.5% of the sale price of the property? 0 0 0 0  
a b c d
- a) P 9.5M      c) P 9.625 M  
b) P 9.7M      d) P 180.5M
60. If 560 out of 700 examinees passed in the recent Career Service exam for Sub-Professional level, what percent of the examinees passed? 0 0 0 0  
a b c d
- a) 65%      b) 72%      c) 80%      d) 140%
61. Mr. Cruz borrows P 750 000 from Asian Bank and is charged P 90 000 interest. What rate of interest did Asian Bank charge for the loan? 0 0 0 0  
a b c d
- a) 8%      b) 9%      c) 10%      d) 12%
62. A store sells shirts for P1 078 each or 3 for P2 997. How much would one save by buying 3 shirts at a time instead of 3 shirts, one at a time? 0 0 0 0  
a b c d
- a) P 237      b) P 921      c) P1 237      d) P1 921
63. A computer can be rented for P1 745 a week or P347.50 a day. You need the computer only for 6 days. At which rate ( daily or weekly), would it be cheaper to rent and by how much cheaper? 0 0 0 0  
a b c d
- a) weekly; P 340      c) daily; P340  
b) daily; P240      d) weekly; P240

64. A 1.25 - kg box of Brand A detergent sells for P 87.50. A 1.5 - kg box of Brand B detergent sells for P 103.20. What is the difference in the price per kg? 0 0 0 0  
a b c d
- a) P 1.20      b) P 1.50      c) P 1.80      d) P 2.00
65. A 30-cm long plastic pipe costs P 249. At this rate, what is the price of the pipe per meter? 0 0 0 0  
a b c d
- a) P 830      b) P 840      c) P 747      d) P 749
66. A homeowner can rent a chain saw from a rental agency at P 2 700 a day. The brand new of the same saw can be bought for P 18 900. For how many days could the homeowner rent the saw before renting would cost more than buying? 0 0 0 0  
a b c d
- a) 5      b) 6      c) 7      d) 8
67. Paula uses ten 100-watt bulbs in her house. She uses these bulbs at an average of 5 hours each day. How many KWH do these bulbs use each day? 0 0 0 0  
a b c d
- a) 5      b) 10      c) 50      d) 5 000
68. An electric range uses 12,200 watts per hour and is run an average of 60 hours a year. How many kilowatt-hour is this? 0 0 0 0  
a b c d
- a) 73.2      b) 732      c) 7 320      d) 7.32
69. A video cassette movie, purchased for P440 was marked up 25% on the selling price. Later, as retail prices fell, this movie was marked down 20% on the current sale price. Find its new sale price. 0 0 0 0  
a b c d
- a) P 352      b) P440      c) P 500      d) P 550

70. MSA Products, Inc., bought these office supplies last week: 1 320 pens @ P 0.125; 1 480 packs paper clips @ P 0.625; 1 240 boxes of tape @ P 0.875; 1 720 boxes of cards @ P 0.80. A 5% sales tax is added. What was the company's total bill?

- a) P 173.25  
b) P 3 551

- c) P 971.25  
d) P 3 728.55

71. The question "How many flowers are needed to border a rectangular garden?", involves

- a) weight      b) perimeter      c) volume      d) area

72. How many meters of fencing are needed to enclose an 84-meter by 48-meter rectangular garden?

- a) 132 m      b) 244 m      c) 264 m      d) 4 032  $m^2$

73. How many 1-cm-square stickers are needed to cover a photo box 4 cm long, 3 cm wide and 5 cm high?

- a) 47      b) 60      c) 88      d) 94

74. One side of a triangle is 3 cm longer than the shortest side, and the other side is 4 cm longer than the shortest side. How long is the shortest side if the perimeter is 67 cm?

- a) 20 cm      b) 23 cm      c) 24 cm      d) 27 cm

75. The length of a rectangle is 2 cm less than twice its width. What is its width in cm, if its perimeter is 50 cm?

- a) 8      b) 9      c) 16      d) 25

0 0 0 0  
a b c d

0 0 0 0  
a b c d

0 0 0 0  
a b c d

0 0 0 0  
a b c d

0 0 0 0  
a b c d

0 0 0 0  
a b c d

## Data Sufficiency

**Directions:** Each of this data sufficiency problem consists of a question and two statements, labeled (1) and (2), in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the questions. Shade the oval above

- a if statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- b if statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- c if BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- d if each statement ALONE is sufficient.
- e if statements (1) and (2) TOGETHER are not sufficient.

1. By what percent was the price per kilo of chicken increased?      0 0 0 0 0  
 a b c d e
  - (1) The price per kilo of chicken was increased by P20.
  - (2) The price per kilo of chicken after the increase was P120.
  
2. A real estate broker received a commision of 8% of the selling price of a certain property, what was the selling price of the property?      0 0 0 0 0  
 a b c d e
  - (1) The selling price minus the real estate agent's commission was P 9 200 000.
  - (2) The selling price was 250% of the original purchase price of P 4 000 000.
  
3. Chin-Chin and Queenie May were among those who sold raffle tickets to raise money for the club. If Chin-Chin and Queenie May sold a total of 168 tickets, how many tickets did Chin-Chin sell?  
 0 0 0 0 0  
 a b c d e
  - (1) Queenie May sold 60% as many raffle tickets as Chin-Chin.
  - (2) Queenie May sold 8% of all the raffle tickets sold.

**Data Sufficiency**

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4. What is the ratio of  $m : s : a$ ?

(1)  $a = 2$ , and  $ms = 64$ .      (2)  $\frac{m}{s} = 2$  and  $\frac{a}{s} = \frac{1}{4}$

0 0 0 0  
a b c d e

5. If  $x$  and  $y$  are integers, is  $x$  divisible by 17?

- (1) The product  $xy$  is divisible by 17.  
(2)  $y$  is not divisible by 17.

0 0 0 0  
a b c d e

6. On Saturday morning the printing machine of Gerpress Printing ran continuously at uniform rate to fill a production order. At what time did it completely fill the order that morning?

- (1) The supervisor began the plan for production 8:08 a.m.  
(2) The machine had filled 50% of the order at

9:48 a.m. and  $\frac{5}{6}$  of the order by 10:18 a.m.

0 0 0 0  
a b c d e

7. How many books does Gerard have?

- (1) If Gerard had 18 fewer books, he would have only half as many as he actually has.  
(2) Gerard has three times as many fiction as non-fiction books.

8. What number is 24% of  $x$ ?

(1) 16 is 8% of  $x$ .      (2)  $\frac{1}{8}$  of  $x$  is 1600.

0 0 0 0  
a b c d e

9. What was the total amount raised for the Payatas Tragedy?

- (1) Of the amount donated, 48% came from private corporations.  
(2) Of the amount donated, P 15M came from personal donations.

10. Miriam's total score in the three bowling games was 530. What were her scores?

- (1) Miriam's highest score was 198.  
(2) The sum of Miriam's two highest scores was 368.

0 0 0 0  
a b c d e

11. Is the value of  $x$  closer to 48 than to 78?

0 0 0 0  
a b c d e

(1)  $78 - n > n - 48$

(2)  $n > 60$

12. In last Saturday's Midnight Sale at Sta. Lucia Mall a certain shop sold 75% of the shirts in its inventory. Each shirt was sold for P358. What was the total revenue from the sale of these shirts on that day?

0 0 0 0  
a b c d e

(1) When the shop opened last Saturday, there were 448 shirts in its inventory.

(2) All but 112 of the shop's inventory were sold last Saturday.

13. How many more boys than girls are there in the room?

0 0 0 0  
a b c d e

(1) There is a total of 56 girls and boys in the room.

(2) The number of boys in the room equals the square of the number of girls in the room.

14. In what year was Gerard born?

0 0 0 0  
a b c d e

(1) Gerard's friend Mary Angela, who is  $\frac{1}{2}$  years younger than him, was born in 1979.

(2) In 1998 Gerard turned 20 years old.

15. A box contains 48 balls, of which 30 are red and 18

0 0 0 0  
a b c d e

are blue. If 16 of the balls are removed, how many of the balls left in the box are blue?

(1) Of the balls removed, the ratio of the number of red ones to the number of blue ones is 5 : 3.

(2) Of the first 8 marbles removed, 5 are red.

**Data Sufficiency**

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16. How long did it take Mrs. Alferez to drive non-stop 0 0 0 0 0  
on a trip from her home to Ayala Alabang? a b c d e
- (1) If Mrs. Alferez's average speed for the trip had been 1.5 times as fast, the trip would have taken 2 hours.  
(2) Mrs. Alferez's average speed for the trip was 80 km per hour.
17. If Myrna had a dentist's appointment on a certain day, 0 0 0 0 0  
was the appointment on a Friday? a b c d e
- (1) Exactly 64 hours before the appointment, it was Wednesday.  
(2) The appointment is between 2:00 p.m. to 7:00 p.m.
18. What was the average number of kilometers per liter 0 0 0 0 0  
of gasoline a car can consume during a certain trip? a b c d e
- (1) The total cost of the gasoline used by the car or the 640-km trip was P 1 152.  
(2) The cost for the gasoline used by the car for the trip was P18.00 per liter.
19. What is the ratio of  $a$  to  $b$ ? 0 0 0 0 0  
a b c d e
- (1)  $a$  is 8 more than twice  $b$ .  
(2) The ratio of  $a$  to  $4b$  is 3 : 7.
20. At MSA Tutorial and Review Center, 400 students 0 0 0 0 0  
are enrolled for the Review Program or Academic a b c d e  
Advancement Program or both. If 100 of these  
students are not enrolled in the Review Program, how  
many of them are enrolled in both MSA Review  
Program and MSA Academic Advancement Program ?
- (1) Of the 400 students, 160 are not enrolled in the Academic Advancement Program .  
(2) A total of 240 of the students are enrolled in the Academic Advancement Program.

## Clerical Operations

### Alphabetizing

**DIRECTIONS:** Arrange each group of items in alphabetical order.

1. A. Commission on The Filipino Language      0 0 0 0  
B. Commission on Human Rights      a b c d  
C. Commission on Higher Education  
D. Commission on Population

a. ABCD      c. BCDA  
b. CBDA      d. ACBD

2. A. Cooperative Development Authority      0 0 0 0  
B. Cottage Industry Development Enterprise      a b c d  
C. Cottage Industry Technology Center  
D. Council for the Welfare of Children

a. ABCD      c. BCAD  
b. ACBD      d. CBAD

3. A. Food and Nutrition Research Institute      0 0 0 0  
B. Fiber Industry Development Authority      a b c d  
C. Foreign Service Institute  
D. Family Planning Organization of the Philippines

a. ABCD      c. DBCA  
b. BACD      d. DBAC

4. A. Insurance Commission      0 0 0 0  
B. Industrial Technology Development Institute      a b c d  
C. Institute of Labor and Manpower Studies  
D. Instructional Materials Corporation

a. BDCA      c. BCDA  
b. BACD      d. BADC

5. A. Presidential Commission on Good Government      0 0 0 0  
B. Presidential Commission to Fight Poverty      a b c d  
C. Presidential Commission for the Urban Poor  
D. Presidential Commission on Human Rights
- a. CBAD      c. CABD  
b. CBAD      d. CADB
6. A. AA Industrial Chemical Supply      0 0 0 0  
B. AB Capital and Investment Corporation      a b c d  
C. A Soriano Aviation Incorporated  
D. A-1 Driving Company Incorporated
- a. DCAB      c. ABCD  
b. DCBA      d. CABD
7. A. Ayala Plans Inc.      0 0 0 0  
B. Ayala Health Care Inc.      a b c d  
C. Ayala Land Inc.  
D. Ayala Life Assurance Inc.
- a. BCDA      c. DCBA  
b. ABCD      d. BACD
8. A. Filspin Incorporated      0 0 0 0  
B. Filway Marketing Inc.      a b c d  
C. Filsov Shipping Company  
D. Fina Products Inc.
- a. ACDB      c. BCAD  
b. CABD      d. BACD

**Alphabetizing****English**

- |     |   |                    |                    |
|-----|---|--------------------|--------------------|
| 9.  | A. John Shannon Montessori<br>B. John Paul Hospital<br>C. John Robert Powers<br>D. John Nelson and Associates<br><br>a. DACB<br>b. DBCA             | c. DCBA<br>d. DABC | 0 0 0 0<br>a b c d |
| 10. | A. Sports Zone Restaurant<br>B. Sports Resources Inc.<br>C. Sports Values Inc.<br>D. Sports House and General Merchandise<br><br>a. ABCD<br>b. BCDA | c. CBDA<br>d. DBCA | 0 0 0 0<br>a b c d |
| 11. | A. Abad, Josephine<br>B. Abad, Jason<br>C. Abad, Joseph<br>D. Abad, Jane<br><br>a. DBCA<br>b. DBAC  | c. BDCA<br>d. BCDA | 0 0 0 0<br>a b c d |
| 12. | A. St. Stephen's School<br>B. St. Stephen's University<br>C. St. Scholastica's Academy<br>D. St. Scholastica's College<br><br>a. ABCD<br>b. CDBA    | c. CDAB<br>d. DCAB | 0 0 0 0<br>a b c d |

13. A. Santos, Anita                                    0 0 0 0  
          B. Santos, Ana                                    a b c d  
          C. Santos, Antonio  
          D. Santos, Anthony
- a. CDBA    c. BADC  
          b. DCBA    d. BACD
14. A. Philippine Daily Inquirer                        0 0 0 0  
          B. Philippine Star                                    a b c d  
          C. Philippine Herald  
          D. Philippine Tribune
- a. ABCD    c. ADCB  
          b. ACBD    d. ACDB
15. A. Luna, Antonio                                0 0 0 0  
          B. Luna, Juan                                    a b c d  
          C. Luna, Olive  
          D. Luna, Oliver
- a. ABCD    c. ACBD  
          b. ABDC    d. ADCB
16. A. Felimon, Jason                                0 0 0 0  
          B. Felipe, Julian                                    a b c d  
          C. Felimon, Jamie  
          D. Felipe, Julia
- a. CADB    c. CABD  
          b. ACBD    d. ACDB

- |     |  |                    |                    |
|-----|--|--------------------|--------------------|
| 17. | A. UP Institute for Small Scale Industries<br>B. UP Institute for Science and Math Education<br>C. UP Institute of Biology<br>D. UP Institute of Chemistry<br><br>a. ABCD<br>b. BACD | c. CDAB<br>d. CDBA | 0 0 0 0<br>a b c d |
| 18. | A. Bureau of Post<br>B. Bureau of Internal Revenue<br>C. Bureau of Mines<br>D. Bureau of Fisheries and Aquatic Resources<br><br>a. DBCA<br>b. DABC                                   | c. DCBA<br>d. DBAC | 0 0 0 0<br>a b c d |
| 19. | A. Rancho, Elian<br>B. Rallon, Michel<br>C. Ramirez, Sean<br>D. Rancho, Elaine<br><br>a. BCAD<br>b. BDAC   | c. BCDA<br>d. BACD | 0 0 0 0<br>a b c d |
| 20. | A. Quesada, Arianne<br>B. Quisumbing, Armie<br>C. Quintin, Adela<br>D. Quezon, Aurora<br><br>a. ABCD<br>b. ADCB  | c. ACBD<br>d. ABDC | 0 0 0 0<br>a b c d |

## Synonyms

**DIRECTIONS:** Shade the oval above the letter that corresponds to the word closest in meaning to the bold and italicized word in the sentence.

Example: 1 The *unperturbed* baby slept soundly.

- a. disturbed                          c. tired  
b. undisturbed                        d. exhausted

0000  
a b c d

1. We should never be *apathetic* towards other people for we have a social responsibility to fulfill.

- a. indifferent
  - b. concerned
  - c. generous
  - d. worried

0000  
a b c d

2. A good leader should be *cognizant* of the numerous issues  
that affect his constituents.



- a. praising
  - b. confusing
  - c. damaging
  - d. discouraging

0 0 0 0  
a b c d

4. Flowers are *ephemeral*; they bloom yet wither in a week or so later.

- a. shrivel
  - b. long lasting
  - c. beautiful
  - d. short lived

0 0 0 0  
a b c d

5. A *fastidious* person will never find true happiness.

- a. simple
  - b. choosy
  - c. greedy
  - d. contented

0000  
a b c d

6. The Ortigas Center is filled with ***gargantuan*** buildings, some having up to 50 floors.

- a. crowded
  - b. old and weak
  - c. first class
  - d. gigantic

0 0 0 0  
a b c d

Synonyms	English
7. Nobody liked <b>haughty</b> Monty who kept bragging about his riches. a. arrogant b. foolish	c. respectable d. dependable 0 0 0 0 a b c d
8. The corrupt policeman was discharged from service due to his <b>ignominious</b> act of accepting bribes a. honorable b. disrespectful	c. unwanted d. remarkable 0 0 0 0 a b c d
9. The <b>impudent</b> child was scolded for answering back to older people. a. respectful b. honorable	c. clever d. rude 0 0 0 0 a b c d
10. Spores are <b>infinitesimal</b> reproductive units of fungi and lower plants. a. invisible b. interesting	c. microscopic d. large 0 0 0 0 a b c d
11. Never trust an <b>insidious</b> person because you'll never know what goes on in his mind. a. honest b. treacherous	c. loyal d. trustworthy 0 0 0 0 a b c d
12. Jessica is an <b>irascible</b> girl who frequently has tantrums. a. impatient b. cheerful	c. hot-tempered d. jolly 0 0 0 0 a b c d
13. Surgeons should be <b>meticulous</b> especially when performing operations. a. careful b. careless	c. strict d. lenient 0 0 0 0 a b c d
14. Christ teaches us to be concerned about putting up riches in heaven and not to be obsessed with <b>mundane</b> things. a. temporary b. worldly	c. insignificant d. important 0 0 0 0 a b c d

English	Synonyms
15. Rochelle has difficulty seeing things from afar because she is <b>myopic</b> .	0 0 0 0 a b c d
a. cross-eyed b. eagle-eyed	c. farsighted d. nearsighted
16. Regina, being a child of three, is <b>oblivious</b> to the world around her.	0 0 0 0 a b c d
a. careful b. carefree	c. aware d. unmindful
17. Man can never be <b>omniscient</b> like God.	0 0 0 0 a b c d
a. all-knowing b. logical	c. immortal d. miraculous
18. The <b>piquant</b> mouse was able to find its way out of the maze in a short while.	0 0 0 0 a b c d
a. dumb b. clever	c. small d. unusual
19. It is now <b>plausible</b> to say that someday, interplanetary travel will no longer be impossible.	0 0 0 0 a b c d
a. reasonable b. unusual	c. illogical d. extraordinary
20. A <b>prudent</b> person is not easily deceived.	0 0 0 0 a b c d
a. loyal b. careless	c. wise d. foolish
21. "Spare the rod and spoil the child" is a common <b>aphorism</b> .	0 0 0 0 a b c d
a. slogan b. battlecry	c. proverb d. motto
22. Charmaine's <b>deportment</b> is highly commendable.	0 0 0 0 a b c d
a. belief b. behavior	c. intelligence d. competence
23. For <b>enmity</b> and hate are contrary to friendship and concord.	0 0 0 0 a b c d
a. agreement b. mutual hatred	c. confusion d. division

Synonyms	English
24. The Filipino's <b>fortitude</b> is the reason why he seldom complains.	0 0 0 a b c d
a. endurance b. peace-loving	c. discontent d. satisfaction
25. Poverty should never be viewed as an <b>impediment</b> towards attaining good education.	0 0 0 a b c d
a. reason b. way	c. link d. obstruction
26. The students were <b>upbraided</b> for misbehaving during the assembly.	0 0 0 a b c d
a. praised b. honored	c. scolded d. stopped
27. <b>Urbane</b> people are appalled by rude behavior.	0 0 0 a b c d
a. well-mannered b. ill-mannered	c. modern d. rich
28. Clowns are never <b>vapid</b> but the sick usually are.	0 0 0 a b c d
a. lively and energetic b. lacking spirit and liveliness	c. clumsy d. funny
29. The client was asked to verify the <b>veracity</b> of the statement of accounts issued.	0 0 0 a b c d
a. accuracy b. discrepancy	c. redundancy d. mistake
30. Dentists believe that babies should be <b>weaned</b> from feeding bottles as soon as possible to prevent malformation of the infants' erupting teeth.	0 0 0 a b c d
a. get used to b. develop hatred for	c. free from dependence d. make more dependent
31. Some people believe that Balete Drive is haunted because a <b>wraith</b> of a woman appears there.	0 0 0 a b c d
a. shadow b. statue	c. reflection d. ghost

32. She looks **unkempt** with her wavy coarse hair falling freely behind her back.
- a. pretty
  - b. neat
  - c. prim and proper
  - d. untidy
33. The room is **topsy-turvy**, as if a hurricane just passed through.
- a. disorderly
  - b. destroyed
  - c. orderly
  - d. clean
34. Sherlock Holmes is a famous **sleuth**.
- a. adventurer
  - b. scientist
  - c. detective
  - d. criminal
35. Mindy **rummaged** through the chest of old clothes for something usable to donate.
- a. searched through
  - b. wandered through
  - c. passed through
  - d. scattered
36. Only a **ruffian** could do such a heinous act of killing a helpless child.
- a. an insane person
  - b. a brutal person
  - c. a lovable person
  - d. a confused person
37. To **augment** the policemen's income, the government allowed them to take part-time jobs.
- a. increase
  - b. contribute
  - c. limit
  - d. remove
38. A person's reputation is very important so be very careful not to **calumniate** anybody.
- a. embarrass
  - b. abuse
  - c. tease
  - d. slander
39. The footprints were **effaced** when the floor was mopped.
- a. printed
  - b. erased
  - c. deformed
  - d. developed
40. The plane **overshot** the runway and landed on a ditch.
- a. passed through
  - b. passed by
  - c. went beyond
  - d. did not reach

## Antonyms

**DIRECTIONS:** Choose the letter that corresponds to the word opposite in meaning to the italicized word or phrase in the sentence.

Example:

- |   |                                       |                                    |                  |
|---|---------------------------------------|------------------------------------|------------------|
| 1. The <b>ascetic</b> man donated all his money to charity.                               | a. selfless<br>b. selfish             | c. self-motivated<br>d. charitable | 0 0 0<br>a b c d |
| 1. Czarmaine <b>accompanied</b> her sister to the drugstore.                              | a. followed<br>b. let go on one's own | c. left behind<br>d. stopped       | 0 0 0<br>a b c d |
| 2. Beside the <b>boulevard</b> are gigantic buildings.                                    | a. alley<br>b. street                 | c. avenue<br>d. road               | 0 0 0<br>a b c d |
| 3. He often got into trouble because he was <b>brusque</b> .                              | a. blunt<br>b. rude                   | c. refined<br>d. curt              | 0 0 0<br>a b c d |
| 4. The reporter's <b>candid</b> remarks caught the mayoralty candidate off-guard.         | a. secret<br>b. frank                 | c. well-thought<br>d. reserved     | 0 0 0<br>a b c d |
| 5. The mean boys <b>derided</b> the sickly boy.   | a. made fun of<br>b. ridiculed        | c. praised<br>d. abandoned         | 0 0 0<br>a b c d |
| 6. Charm was <b>ecstatic</b> when she won first prize in the short story writing contest. | a. melancholic<br>b. overjoyed        | c. worried<br>d. energetic         | 0 0 0<br>a b c d |
| 7. Migraine headaches are <b>excruciating</b> .   | a. extremely painful<br>b. mild pain  | c. painless<br>d. healing          | 0 0 0<br>a b c d |



Antonyms	English
17. The sickly dog was given a <b>lethal</b> dose of morphine tablets. a. fatal b. safe	0 0 0 a b c d
c. deadly d. nasty	
18. Heinous criminals are truly <b>loathsome</b> . a. repugnant b. foul	0 0 0 a b c d
c. adorable d. nasty	
19. We listened attentively to the <b>mellifluous</b> sound produced by the Philippine Philharmonic Orchestra. a. harsh b. resonant	0 0 0 a b c d
c. melodious d. mellow	
20. The free medical and dental checkup conducted by the AFP Group is just a proof of their <b>munificence</b> . a. commitment b. generosity	0 0 0 a b c d
c. extravagance d. stinginess	
21. Justice calls for penalizing <b>nefarious</b> acts. a. honorable b. detestable	0 0 0 a b c d
c. infamous d. vile	
22. The MSA Reviewer Books are <b>noteworthy</b> materials. a. remarkable b. substantial	0 0 0 a b c d
c. trivial d. significant	
23. You will never get sufficient nourishment if you are <b>obdurate</b> in refusing to eat vegetables. a. stubborn b. obedient	0 0 0 a b c d
c. firm d. willful	
24. Don't be so <b>obtrusive</b> but instead, mind your own business. a. reserved b. snoopy	0 0 0 a b c d
c. nosy d. interfering	
25. I admire people who are modest despite their <b>opulence</b> . a. great wealth b. poverty	0 0 0 a b c d
c. affluence d. lavishness	





## Single-Word Analogy

**DIRECTIONS:** Choose the letter that corresponds to the word that correctly completes each analogy.

Example: 1. Star : galaxy :: pebble :

- |          |          |
|----------|----------|
| a. stone | c. beach |
| b. rock  | d. sand  |

0000	a b c d
------	---------

- |   |                     |
|---|---------------------|
| 1. Moby Dick : Herman Melville :: The Old Man and the Sea : | 0000<br>a b c d     |
| a. Charles Dickens  | c. Charles Perrault |
| b. Ernest Hemingway   | d. Robert Frost     |
|   |                     |
| 2. Confucius : China :: Mahatma Gandhi :                    | 0000<br>a b c d     |
| a. India  | c. Africa           |
| b. Japan  | d. Philippines      |
|   |                     |
| 3. BIR : Taxes :: DPWH :                                    | 0000<br>a b c d     |
| a. Public Roads   | c. Traffic          |
| b. Houses   | d. Churches         |
|   |                     |
| 4. Barangay : Captain :: Provincial Government :            | 0000<br>a b c d     |
| a. Congressmen  | c. Senator          |
| b. Mayor  | d. Governor         |
|   |                     |
| 5. USA : Washington D.C. :: Philippines :                   | 0000<br>a b c d     |
| a. Quezon City  | c. Manila           |
| b. San Juan   | d. Cebu             |
|   |                     |
| 6. Presidential : President :: Parliamentary :              | 0000<br>a b c d     |
| a. Prime Minister   | c. House Speaker    |
| b. King   | d. Cardinal         |
|   |                     |
| 7. Tagbanua : Palawan :: Kankanay :                         | 0000<br>a b c d     |
| a. Ilocos   | c. Benguet          |
| b. Cavite   | d. Cebu             |

Single-Word Analogy	English
8. Pyramid : Egypt :: Taj Majal : a. China b. Japan	c. India d. Malaysia 0 0 0 a b c d
9. Tigris-Euphrates : Mesopotamia :: Nile River : a. Egypt b. Greece	c. Italy d. Spain 0 0 0 a b c d
10. Mahabharata : India :: Gilgamesh : a. Assyria b. Sumeria	c. Chaldea d. Babylon 0 0 0 a b c d
11. Italy : Latin :: Greece : a. Grecian b. French	c. Greek d. Greece 0 0 0 a b c d
12. Sistine Madonna : Raphael :: Last Supper : a. Michaelangelo b. Leonardo da Vinci	c. Rembrandt d. Van Gogh 0 0 0 a b c d
13. Stalagmite : Floor :: Stalactite : a. Wall b. Ceiling	c. Mouth d. Window 0 0 0 a b c d
14. Catholic : Priest :: Moslem : a. Rajah b. Hajji	c. Koran d. Imam 0 0 0 a b c d
15. Giovannni Boccaccio : Decameron :: Niccolo Machiavelli : a. The Little Prince b. Utopia	c. The Prince d. Wealth of Nations 0 0 0 a b c d
16. Samuel Morse : Telegraph :: Alexander Graham Bell : a. telescope b. telephone	c. teleportation d. door bell 0 0 0 a b c d
17. Parachute : Andre Jacques Garnerin :: Television : a. John Logie Baird b. William Sony	c. John Vincent Crowe d. Howard Aiken 0 0 0 a b c d
18. Earth is the center : Ptolemy :: Sun is the center : a. Albert Einstein b. Aristotle	c. Galileo d. Copernicus 0 0 0 a b c d

English		Single-Word Analogy
19. Pythagorean Theorem : Pythagoras :: Cubic Equation :		0 0 0 0
a. Alfred Nobel b. Isaac Newton	c. Tartaglia d. Rene Descartes	a b c d
20. Henry Cavendish : Hydrogen :: Henry Priestly :		0 0 0 0
a. carbonic acid b. oxygen	c. radium d. potassium	a b c d
21. Allied Powers : Russia :: Central Powers :		0 0 0 0
a. France b. Britain	c. Italy d. Austria	a b c d
22. entourage : attendants :: cortegue :		0 0 0 0
a. procession for a saint b. procession in court	c. funeral procession d. floral procession	a b c d
23. islet : small island :: rivulet :		0 0 0 0
a. small river b. small land	c. small review d. small rebel	a b c d
24. conspicuous : obvious :: hideous :		0 0 0 0
a. hidden b. ugly	c. expert in hiding d. very bad	a b c d
25. nose : nasal :: abdomen :		0 0 0 0
a. abnormal b. abdominal	c. abominate d. adenoma	a b c d
26. agnostic : doubts God's existence :: atheist :		0 0 0 0
a. denies God's existence b. denies God as creator	c. affirms God's existence d. affirms God as creator	a b c d
27. infanticide : killing of infants :: genocide :		0 0 0 0
a. killing of genies b. killing of geniuses	c. killing of a race or social group d. killing of Geno	a b c d
28. latrine : toilet :: lavatory :		0 0 0 0
a. basin b. tub	c. sink d. bathroom	a b c d
29. masticate : chew :: eradicate :		0 0 0 0
a. collect b. count	c. complete d. throw	a b c d

Single-Word Analogy	English
30. sadism : delight in cruelty to others :: masochism a. delight in building houses b. delight in hurting masons	0000 a b c d
31. mazurka : Polish :: fandango : a. Russian b. Spanish	0000 a b c d
32. nearsighted : myopia :: farsighted : a. hyperopia b. squint	0000 a b c d
33. dyslexia : reading :: aphasia : a. muscle coordination b. speech	0000 a b c d
34. maitre d' : head of a restaurant :: busboy : a. bus conductor b. bus cleaner	0000 a b c d
35. figurine : small figure :: heroine : a. small hero b. female hero	0000 a b c d
36. Xerox : photocopier :: Adidas : a. athlete's shoes b. dress shoes	0000 a b c d
37. Sayonara : Goodbye :: Bonjour : a. Good luck b. Good day.	0000 a b c d
38. superfluous : excessive :: supersede : a. watch over b. full of seeds	0000 a b c d
39. Nativity : Christmas :: Senakulo : a. Advent b. Lent	0000 a b c d
40. theme : main idea :: moral : a. a value b. a desire	0000 a b c d

## Double-Word Analogy

**DIRECTIONS:** Choose the letter that corresponds to the pair of words that is related in the same way as the given pair of words.

Example: 1. accentuate : stress ::

- |  |  |
|--|--|
| a. accost : : leave<br>b. adore : : hate | c. addle : : confuse<br>d. attain : : fail |
|--|--|

0000  
a b c d

1. blend : mix ::

- |  |                                       |
|--|---------------------------------------|
| a. blare : whisper<br>b. bleach : whiten | c. blink : blind<br>d. bloom : flower |
|--|---------------------------------------|

0000  
a b c d

2. abattoir : slaughterhouse ::

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| a. quay : wharf<br>b. quack : duck | c. snail : slow<br>d. clown : fun |
|------------------------------------|-----------------------------------|

0000  
a b c d

3. marriageable : nubile ::

- |  |  |
|--|--|
| a. single : group<br>b. music : mobile | c. puzzle : answer<br>d. decipherable : comprehensible |
|--|--|

0000  
a b c d

4. numismatist : money ::

- |   |  |
|---|--|
| a. aesthetics : beauty<br>b. fetish : obsession | c. linguist : language<br>d. scientist : sense |
|---|--|

0000  
a b c d

5. anxious : uneasy ::

- |   |   |
|---|---|
| a. egocentric : self-centered<br>b. wary : placid | c. feeble : strong<br>d. scornful : admirable |
|---|---|

0000  
a b c d

6. goat : kid ::

- |                                   |  |
|-----------------------------------|--|
| a. bear : cub<br>b. chicken : hen | c. dog : Dalmatian<br>d. tiger : tigress |
|-----------------------------------|--|

0000  
a b c d

7. key : lock ::

- |  |  |
|--|--|
| a. litter : trash<br>b. pestle : pound | c. table : desk<br>d. sword : scabbard |
|--|--|

0000  
a b c d

Double-Word Analogy	English
8. dog : kennel :: a. whale : pond b. socks : feet	c. pig : sty d. eagle : barn 0 0 0 0 a b c d
9. book : leaves :: a. house : kitchen b. chimney : roof	c. fan : electricity d. chair : sitting 0 0 0 0 a b c d
10. panda : China :: a. grizzly : Africa b. polar bear : America	c. Pooh : Disneyland d. koala : Australia 0 0 0 0 a b c d
11. jubilant : morose :: a. humble : modest b. joyous : happy	c. simple : lavish d. pompous : pretentious 0 0 0 0 a b c d
12. tiny : microscopic :: a. uproar : laughter b. large : mammoth	c. argument : meeting d. storm : weather 0 0 0 0 a b c d
13. to smile : to guffaw :: a. to walk : to stroll b. to frown : to weep	c. to munch : to eat d. to lift : to carry 0 0 0 0 a b c d
14. hand : arm :: a. foot : leg b. hips : sway	c. waist : belt d. shoulder : neck 0 0 0 0 a b c d
15. pre : post :: a. anti : pro b. semi : equi	c. able : can d. demi : half 0 0 0 0 a b c d
16. auditorium : audience :: a. hall : pictures b. movie house : cinema	c. coliseum : spectators d. commuters : transportation 0 0 0 0 a b c d
17. Edgar Allan Poe : Annabel Lee :: a. Robert Frost : Medea b. Pygmalion : Galatea	c. Chaucer : Antigone d. Shakespeare : Romeo and Juliet 0 0 0 0 a b c d

- |                                   |                          |                    |
|-----------------------------------|--------------------------|--------------------|
| 18. advise : counsel ::           |                          | 0 0 0 0<br>a b c d |
| a. lead : direct                  | c. peace : piece         |                    |
| b. loss : lost                    | d. want : quality        |                    |
| 19. perspire : sweat ::           |                          | 0 0 0 0<br>a b c d |
| a. clouds : rain                  | c. fan : wind            |                    |
| b. cry : tears                    | d. sad : lonely          |                    |
| 20. extricate : set free ::       |                          | 0 0 0 0<br>a b c d |
| a. journey : far                  | c. implicate : involve   |                    |
| b. liquidate : liquefy            | d. migrate : stay        |                    |
| 21. maggot : fly ::               |                          | 0 0 0 0<br>a b c d |
| a. caterpillar : leaves           | c. butterfly : moth      |                    |
| b. bees : wasp                    | d. tadpole : frog        |                    |
| 22. he : him ::                   |                          | 0 0 0 0<br>a b c d |
| a. me : I                         | c. you : yours           |                    |
| b. they : them                    | d. her : she             |                    |
| 23. lie : to recline ::           |                          | 0 0 0 0<br>a b c d |
| a. lay : put down                 | c. nab : release         |                    |
| b. macabre : beauty               | d. quench : to thirst    |                    |
| 24. igloo : Eskimo ::             |                          | 0 0 0 0<br>a b c d |
| a. cavemen : cave                 | c. destitute : shanty    |                    |
| b. palace : kings                 | d. bees : beehive        |                    |
| 25. dictionary : word meanings :: |                          | 0 0 0 0<br>a b c d |
| a. almanac : synonyms             | c. atlas : maps          |                    |
| b. encyclopedia : word origin     | d. thesaurus : dinosaurs |                    |

Double-Word Analogy	English
26. extemporaneous : rehearsed :: a. live : taped b. momentous : important	0 0 0 0 a b c d
27. tavern : bar :: a. inn : hotel b. apartment : loft	0 0 0 0 a b c d
28. duchess : duke :: a. count : countess b. ewe : ram	0 0 0 0 a b c d
29. dwindle : decrease :: a. defer : act promptly b. deny : grant	0 0 0 0 a b c d
30. prowess : cowardice :: a. adept : skilled b. adroit : uncoordinated	0 0 0 0 a b c d
31. charisma : charismata :: a. deer : deers b. bacterium : bacterium	0 0 0 0 a b c d
32. quintuplet : five :: a. triplet : three b. quartuplet : four	0 0 0 0 a b c d
33. attention : attn :: a. approximate : appro. b. bal : balance	0 0 0 0 a b c d

34. arachnophobia : fear of spiders ::

- a. hydrophobia : fear of wet objects
- b. claustrophobia : fear of clauses
- c. photophobia : fear of light
- d. xenophobia : fear of sin

0 0 0  
a b c d

35. unscrew : tighten ::

- a. remove : restore
- b. relinquish : give up
- c. sensitize : make sensitive
- d. stupefy : make insensible

0 0 0  
a b c d

36. verbose : speechless ::

- a. voracious : greedy
- b. vicious : kind
- c. wanton : lewd
- d. waspish : irritable

0 0 0  
a b c d

37. COD : cash on delivery ::

- a. DST : daylight saving time
- b. PO : public office
- c. NA : not appointed
- d. RSVP : please approve

0 0 0  
a b c d

38. adjacent : near ::

- a. congruent : dissimilar
- b. converge : separate
- c. deliberate : intentional
- d. delude : guide

0 0 0  
a b c d

39. firmament : sky ::

- a. clouds : air
- b. moon : planer
- c. star : gas
- d. soil : ground

0 0 0  
a b c d

40. languid : strong ::

- a. feeble : active
- b. innocuous : harmless
- c. opportune : timely
- d. truculent : restless

0 0 0  
a b c d

## Identifying Errors

**DIRECTIONS:** Choose the underlined word or phrases labelled **a, b, c, or d** which are NOT acceptable in formal written English. Choose **e** if there is no error. Shade the oval that corresponds to your answer on the item number in your answer sheet.

1. No one   were happy   about   the Mindanao crisis.   0 0 0 0 0  
 a                b                c                d                e

No error.  
e

2. The House of Representatives decision to decrease 0 0 0 0 0  
 a                b                c                d                e  
 the budget for the Department of Education was  
 c  
met with protests. No error.  
 d                e

3. The Cabinet regularly meet once a week. No error.   0 0 0 0 0  
 a                b                c                d                e

4. Both the Senators and the Congressmen legislates 0 0 0 0 0  
 a                b                c                d                e  
 laws. No error.

5. The Philippine government have three branches of 0 0 0 0 0  
 a                b                c  
powers: the executive, the legislative and the judicial.  
 d  
No error.  
 e

6. The Supreme Court upholds the highest principles and 0 0 0 0 0  
 a                b  
standards of morality as embodied in the Constitution.  
 c                d  
No error.  
 e

7. Some historians contests the origin of the Filipino flag. 00000  
a b c d e  
No error.  
e
8. Some believe that the flag we use now is not the same 00000  
a b c d e  
as the one made by Marcella Agoncillo. No error.  
d e
9. Either Prof. Teodoro Agoncillo or Dr. Gregorio F. Zaide 00000  
a b c d e  
a  
affirm the history of our flag. No error.  
b c d e
10. The news are written immediately to meet the previous 00000  
a b c d e  
deadline. No error.  
e
11. Attempts is made to locate and restore the last 00000  
a b c d e  
original Filipino flag. No error.  
e
12. Both Chelle and Charm enjoys reading. No error. 00000  
a b c d e
13. Reading books widens one's horizons. No error. 00000  
a b c d e
14. If everybody know how to read, then books will 00000  
a b c d e  
never cease to be useful. No error.  
d e
15. No one dares to question how invaluable books are. 00000  
a b c d e  
No error.  
e

**Identifying Errors****English**

16. Great literary works enriches the vocabulary of their 0 0 0 0 0  
a b c d e  
readers. No error.  
e
17. Have either of the books been returned? No error. 0 0 0 0 0  
a b c d e
18. One hundred fifty pesos are the average selling 0 0 0 0 0  
a b c d e  
price of one textbook. No error.  
c d e
19. One of the machines in the printing press weren't 0 0 0 0 0  
a b c d e  
functioning properly. No error.  
d e
20. Either the teachers or the librarian take care of the 0 0 0 0 0  
a b c d e  
books. No error.  
e
21. A number of books is regularly donated to public 0 0 0 0 0  
a b c d e  
schools. No error.  
e
22. The number of readers continually rise each year. 0 0 0 0 0  
a b c d e  
No error.  
e
23. For I, Reader's Digest is informative as well as 0 0 0 0 0  
a b c d e  
entertaining. No error.  
d e

24. The <u>Manila Bulletin</u> <u>has</u> been <u>published</u> the Panorama a b magazine <u>for</u> over a hundred <u>years</u> . <u>No error.</u> c d e	0 0 0 0 0 a b c d e
25. <u>All</u> children <u>has</u> inherent rights that <u>must</u> be <u>protected</u> . a b <u>No error.</u> e	0 0 0 0 0 a b c d e
26. The <u>editor-in-chief</u> , together with the <u>writers</u> , <u>confers</u> a b c about the contents of their <u>newspaper</u> . <u>No error.</u> d e	0 0 0 0 0 a b c d e
27. <u>Gorio and Tecla</u> , <u>in addition to</u> <u>Captain Barbel</u> , <u>was</u> a a b popular <u>comic books</u> <u>during</u> the '70s. <u>No error.</u> c d e	0 0 0 0 0 a b c d e
28. <u>Pol Medina</u> has <u>drew</u> the <u>very famous</u> <u>Pugad Baboy</u> a b c characters. <u>No error.</u> d e	0 0 0 0 0 a b c d e
29. <u>Pugad Baboy</u> <u>first appear</u> <u>in</u> the Philippine Daily a b c Inquirer <u>during</u> the late '80s. <u>No error.</u> d e	0 0 0 0 0 a b c d e
30. Neither Pol Medina <u>nor</u> his <u>friends</u> <u>thinks</u> he will become a b c <u>successful</u> . <u>No error.</u> d e	0 0 0 0 0 a b c d e
31. Some <u>believes</u> that Mr. Medina's <u>works</u> <u>satirize</u> the a b c socio-economic condition of the people <u>in</u> our country. d <u>No error.</u> e	0 0 0 0 0 a b c d e

Identifying Errors	English
32. The youth <u>delegates</u> <u>have been</u> <u>sang</u> the a b c <u>National Anthem.</u> <u>No error.</u> d e	00000 a b c d e
33. <u>That</u> house and lot <u>in</u> the corner <u>are</u> <u>government-owned.</u> a b c d <u>No error.</u> e	00000 a b c d e
34. The <u>number</u> of <u>socialized</u> housing units <u>sponsored</u> by the a b c government <u>increases</u> each year. <u>No error.</u> d e	00000 a b c d e
35. <u>A</u> <u>quarter</u> of the government tax <u>collections</u> <u>goes</u> to a b c d infrastructure projects. <u>No error.</u> e	00000 a b c d e
36. The <u>beneficiaries</u> of the study grant <u>given</u> by the a b government <u>will be</u> <u>them.</u> <u>No error.</u> c d e	00000 a b c d e
37. Studies <u>suggests</u> that <u>exposure</u> to too much violence on a b television <u>makes</u> one equally <u>violent.</u> <u>No error.</u> c d e	00000 a b c d e
38. The possible <u>effects</u> of television <u>viewing</u> <u>needs</u> to be a b c <u>explored</u> further. <u>No error.</u> d e	00000 a b c d e
39. <u>Every</u> <u>weekdays</u> , Chel and Charm <u>goes</u> to school a b c <u>together.</u> <u>No error.</u> d e	00000 a b c d e

40. *The Scent of Apples*, a story about a Filipino who  
a  
immigrated to the United States, are written by  
b c d  
Bienvenido Santos. No error.  
e
- 00000  
a b c d e
41. Nick Joaquin, one of the exceptional Filipino writers,  
a  
is also known for Quijano de Manila. No error.  
b c d e
- 00000  
a b c d e
42. Some people believes that one could see his future  
a b c  
mate by looking into a mirror on May day eve. No error.  
d e
- 00000  
a b c d e
43. Jose Garcia Villa was a recipient of numerous awards,  
a b c  
between them, the “National Artist Award for Literature”.  
d  
No error.  
e
- 00000  
a b c d e
44. The Far Eastern University (FEU) also gave he a  
a b  
Doctor of Literature *honoris causa* in 1959, aside from  
c  
asking him to be a visiting professor. No error.  
d e
- 00000  
a b c d e
45. Between the numerous prose writers, I think Nick Joaquin  
a b c  
is the best. No error.  
d e
- 00000  
a b c d e
46. Those are work of famous authors. No error.  
a b c d e
- 00000  
a b c d e

## Identifying Errors

English

47. The professor asked her a question about they.  
a b c d  
No error.  
e

00000  
a b c d e

48. Literature seem elusive to people who profess  
a b c  
indifference to it. No error.  
d e

00000  
a b c d e

49. It appeals both to the readers intellect and passion.  
a b c d  
No error.  
e

00000  
a b c d e

50. Robert Frost, an American poet, defines literature as  
a b c  
“performance in words”. No error.  
d e

00000  
a b c d e

51. Either of the authors have received citations for their  
a b c d  
remarkable works. No error.  
e

00000  
a b c d e

52. Just like Edgar Allan Poe, it is believed that Nick  
a b  
Joaquin starts getting ideas after he has drank alcoholic  
c d  
beverages. No error.  
e

00000  
a b c d e

53. Computers are widely use nowadays even in preschools.  
a b c d  
No error.  
e

00000  
a b c d e

54. The number of Computer Science students steadily      00000  
          a   a b c d e  
          b     
increases. No error.  
          c   d e
55. AMA, in addition to STI, train students to be      00000  
          a   a b c d e  
proficient in computer use. No error.  
          c   d e
56. Knowledge should always be put to good use.      00000  
          a   a b c d e  
          b     
No error.  
          c   d e
57. One of the viruses has infect my brother's brand      00000  
          a   a b c d e  
new laptop computer. No error.  
          b   d e
58. Internet access allow us to communicate with other      00000  
          a   a b c d e  
          b     
people anywhere in the world. No error.  
          c   d e
59. All of the pens are spent yesterday. No error.      00000  
          a   a b c d e  
          b     
          c   d e
60. Each computer come with either a compact disk player      00000  
          a   a b c d e  
          b     
or a DVD player. No error.  
          c   d e

## Paragraph Development

**DIRECTIONS:** Each sentence below, when put in the correct order, would make a well-organized paragraph. Decide what should be the correct order of the sentences, then answer the questions that follow.

- I.A. The first procedure is that the bill passes through three readings on separate days.
- B. Otherwise, the bill will go back to the House from where it originated, and it will be deliberated upon again.
- C. If the President approves the bill, then it shall be deemed a law.
- D. A bill, before becoming a law, undergoes several procedures.
- E. On the third reading, the votes of the lawmakers shall be recorded and if the bill is approved, it goes to the President for approval or veto.

1. What should be the first sentence?

- |      |      |      |
|------|------|------|
| a. A | c. C | e. E |
| b. B | d. D |      |

00000  
a b c d e

2. What should be the fourth sentence?

- |      |      |      |
|------|------|------|
| a. A | c. C | e. E |
| b. B | d. D |      |

00000  
a b c d e

If the following sentence is added as sentence F:

*It should be noted, however, that the President must communicate his veto within thirty days from receipt of the bill, otherwise, the bill is considered to have been approved by him.*

3. What would the new order of the sentences be?

- |                |                |
|----------------|----------------|
| a. B-C-D-E-A-F | d. A-B-C-D-E-F |
| b. D-B-A-F-C-E | e. C-B-D-A-E-F |
| c. D-A-E-C-B-F |                |

00000  
a b c d e

- II.A. Learning to listen is one way of keeping friends.
- B. Although listening can really be very tiring on the listener, it may, on the other hand, be comforting to the speaker.
- C. So learn how to listen, and gain more friends.
- D. We also show that we care about what goes on in their lives.
- E. By listening, we show our friends that they are important to us.

4. What should be the third sentence?
- a. A                  c. C                  e. E
- b. B                  d. D

0 0 0 0  
a b c d e

5. What should be the fourth sentence?
- a. A                  c. C                  e. E
- b. B                  d. D

0 0 0 0  
a b c d e

- III.A. Hence, it can be said that the President really has a lot of duties and responsibilities.
- B. He has control over department secretaries and can overrule their decisions.
- C. Furthermore, the President exercises veto power over bills passed by the Congress.
- D. Lastly, he is the Chief Executive, executing the laws and rules of the country.
- E. The President in a presidential system is the Head of State and the Head of Government.

6. What should be the second sentence?
- a. A                  c. C                  e. E
- b. B                  d. D

0 0 0 0  
a b c d e

7. What should be the last sentence?

00000  
a b c d e

- a. A                  c. C                  e. E  
b. B                  d. D

IV.A. Not only that, paying taxes also means the government will  
no longer need to acquire loans to fill the budget deficit.

- B. Every citizen should lend a hand in pursuing economic progress.  
C. One way to do it is to pay one's taxes correctly.  
D. Paying correct taxes results in increased revenues that the government  
uses for infrastructure and other projects.  
E. So be a good citizen and pay your taxes correctly.

8. What should be the second sentence?

00000  
a b c d e

- a. A                  c. C                  e. E  
b. B                  d. D

9. What should be the fourth sentence?

00000  
a b c d e

- a. A                  c. C                  e. E  
b. B                  d. D

10. What is the appropriate title for the above paragraph?

00000  
a b c d e

- a. Economic Progress  
b. A Citizen's Duty  
c. Taxing the Economy  
d. Taxes and Economic Progress  
e. Lend a Hand for Progress

## Correct Usage

**DIRECTIONS:** Choose the letter that corresponds to the word or phrase that will correctly complete each sentence.

Example: 1. stepping on my toes.



a b c d

1. Czarmaine remarkable poems even at her young age.

- a. rites
  - b. rights
  - c. writes
  - d. write

0000  
a b c d

2. Being too \_\_\_\_\_ will undoubtedly make other men hate you.

- a. vane
  - b. vain
  - c. vein
  - d. vanity

0000  
a b c d

3. Due to bad weather, the airline company decided \_\_\_\_\_ postpone the flight.

- a. two
  - b. to
  - c. too
  - d. then

0 0 0 0  
a b c d

4. Drunk driving was the reason for the accident.



0 0 0 0  
a b c d

5. May I have your *Titanic* compact disk?



0 0 0 0  
a b c d

the three girls, the eldest is the most diligent.



0 0 0 0  
a b c d

7. Exposure to air pollution will **trigger** your asthma.

- a. cure
  - b. deteriorate
  - c. aggravate
  - d. annoy

0 0 0 0  
a b c d

Correct Usage	English
8. His _____ to Mount Apo was carefully documented.	0 0 0 0 a b c d
a. assent	c. descent
b. ascent	d. decrease
9. The children _____ the ill effects of war.	0 0 0 0 a b c d
a. have borne	c. has borne
b. have born	d. had born
10. The teachers distributed different _____ outlines for the students to follow.	0 0 0 0 a b c d
a. coarse	c. course
b. corps	d. corpse
11. Carl juggles oranges, _____ you?	0 0 0 0 a b c d
a. why	c. should
b. may	d. can
12. The refugees decided to _____ their homes because of the war.	0 0 0 0 a b c d
a. desert	c. deserve
b. dessert	d. reserve
13. My sister _____ to Zamboanga seven years ago.	0 0 0 0 a b c d
a. migrated	c. immigrated
b. migrating	d. immigrating
14. We used _____ sauce for the spaghetti last Sunday.	0 0 0 0 a b c d
a. less	c. a number of
b. few	d. pieces of
15. If we work together, we could finish this _____ in a short time.	0 0 0 0 a b c d
a. piece	c. please
b. peace	d. peas
16. When the Apartheid Policy was still in effect, the Blacks were _____ by the Whites.	0 0 0 0 a b c d
a. praised	c. persecuted
b. hailed	d. prosecuted

English

## Correct Usage

17. When we \_\_\_\_\_ the flag, we should all stand up. 0000  
 a. rice c. risen  
 b. rise d. raise a b c d

18. The DPWH crew worked \_\_\_\_\_ the night to repair the damaged bridge. 0000  
 a. threw c. trough  
 b. through d. true a b c d

19. \_\_\_\_\_ the leader of your group? 0000  
 a. Who's c. Which  
 b. Whose d. Whom's a b c d

20. The village elder told many interesting \_\_\_\_\_. 0000  
 a. tale c. tails  
 b. tail d. tales a b c d

21. Marty \_\_\_\_\_ Evelyn \_\_\_\_\_ to dinner. 0000  
 a. asked - out c. called - out  
 b. asked - after d. called - up a b c d

22. The celebrant \_\_\_\_\_ the candles after we sang. 0000  
 a. blew off c. blew out  
 b. blew up d. blew over a b c d

23. The secretary \_\_\_\_\_ due to stress. 0000  
 a. broke even c. broke in  
 b. broke out d. broke down a b c d

24. The Edsa People's Revolution \_\_\_\_\_ the Marcos regime. 0000  
 a. brought in c. brought forth  
 b. brought on d. brought down a b c d

25. The unexpected \_\_\_\_\_ of vehicles along Marcos Highway caused heavy traffic. 0000  
 a. build up c. build in  
 b. build on d. build over a b c d

Correct Usage	English
26. After cleaning the entire house, I felt _____. a. burned in                                   c. burned up b. burned out                                   d. burned over	0 0 0 0 a b c d
27. The drug pushers tried to _____ the arresting cops. a. buy in                                       c. buy out b. buy off                                      d. buy up	0 0 0 0 a b c d
28. The Cabinet meeting was _____ on account of the President's ill health. a. called in                                   c. called out b. called up                                   d. called off	0 0 0 0 a b c d
29. The tele-novela viewers cried helplessly when they got _____ by the tragedy that befell the main character. a. carried out                                c. carried over b. carried away                               d. carried on	0 0 0 0 a b c d
30. We should _____ on our expenditures and spend only on our needs. a. cut short                                  c. cut back b. cut up                                       d. cut out	0 0 0 0 a b c d
31. People of all races should try to _____ with each other. a. get around                                c. get at b. get along                                   d. get over	0 0 0 0 a b c d
32. We should grow wiser as time _____. a. goes along                                c. goes down b. goes by                                     d. goes through	0 0 0 0 a b c d
33. The partying teens were told to _____ the noise. a. hold down                                c. hold on b. hold forth                                d. hold with	0 0 0 0 a b c d

34. A gust of strong wind \_\_\_\_\_ the old wooden swing.      0 0 0 0  
a. knocked around      c. knocked down  
b. knocked back      d. knocked out
35. A number of factory workers were \_\_\_\_\_ due to retrenchment.      0 0 0 0  
a. laid aside      c. laid off  
b. laid away      d. laid out
36. We should never \_\_\_\_\_ people with disabilities for they also have the right to live.      0 0 0 0  
a. look down on      c. look out to  
b. look forward to      d. look up to
37. Stop \_\_\_\_\_ your younger brother so he will stop crying.      0 0 0 0  
a. picking at      c. picking out  
b. picking on      d. picking up
38. Always \_\_\_\_\_ your best effort in everything you do.      0 0 0 0  
a. put across      c. put forth  
b. put down      d. put out
39. Did you help in \_\_\_\_\_ the table?  
a. setting apart      c. setting down  
b. setting back      d. setting up
40. She \_\_\_\_\_ the details of the program.  
a. wrote in      c. wrote over  
b. wrote off      d. wrote up

## Reading Comprehension

**DIRECTIONS:** Read each selection then answer the questions after each. Choose the letter that corresponds to the correct answer based on the given selection/s.

Example: *Virtue, then, is the mean between two vices - the vice arising from excess and the one proceeding from defect. Virtue finds and chooses that which is the mean in both emotion and action.*

- From: *The Golden Mean* by Aristotle

1. What is the golden mean identified by Aristotle?  
 a. Virtue b. Vices c. Emotion d. Action

0 0 0  
a b c d

- A. *"All animals wage perpetual war; every species is born to devour another. Not one, not even sheep or doves, that does not swallow a prodigious number of invisible creatures. Males make war for the females, like Menelaus and Paris. Air, earth, water are fields of carnage. God having given reason to men, this reason might teach them not to emulate the brutes, particularly when nature has provided them neither with arms to kill their fellows nor with a desire for their blood."*

*"Can there be anything more horrible in all nature?"*

- Voltaire

1. Which of the following is the reason given why there is war? 0 0 0 0  
 a. Desire for what others have.  
 b. To exact revenge for a wrongdoing.  
 c. To fight over women.  
 d. To prove that one's race is better than the other.
2. What is the author's stand on war? 0 0 0 0  
 a. It is horrible.  
 b. It is important.  
 c. It is a means to control population.  
 d. It is a natural product of man's reason.

3. What is the best title for the selection?

- a. War
  - b. The Products of War
  - c. The Need for War
  - d. The Elements of War

4. What does the statement "*All animals wage perpetual war...*" mean?  a  b  c  d

- a. All war never end's.
  - b. There is always some kind of war occurring someplace.
  - c. Only animals and not man engage in war.
  - d. All animals make war all the time.

B. *Tell me not in mournful numbers,  
Life is but an empty dream!-  
For the soul is dead that slumbers,  
And things are not what they seem*

*Life is real! Life is earnest!  
And the grave is not its goal;  
Dust thou art, to dust returnest,  
Was not spoken of the soul.*

*Not enjoyment, and not sorrow,  
Is our destined end or way;  
But to act that each tomorrow  
Find us farther than today.*

Excerpt from: A Psalm of Life  
by Henry Wadsworth Longfellow

5. What is the poet's view on life? O O O O  
a b c d

- a. Life is empty.
  - b. Life is lonely.
  - c. Life is an empty dream.
  - d. Life is not an empty dream.

6. What is the antecedent of the pronoun *its* in the line "And the grave is not its goal; " ? 0 0 0 0  
a b c d

- a. dream
  - b. life
  - c. real
  - d. earnest

## **Reading Comprehension**

English

7. According to the author, what should be our goal in life?

  - a. To enjoy each moment.
  - b. To act and continually improve our life day by day.
  - c. To beat sorrow.
  - d. To die happily.

0 0 0 0  
a b c d

C. *Dreams*

*by Langston Hughes*

*Hold fast to dreams  
For if dreams die  
Life is a broken-winged bird  
That cannot fly.*

*Hold fast to dreams  
For when dreams go  
Life is a barren field  
Frozen with snow.*

- D. "Only two things in life are certain, Benjamin Franklin once remarked: death and taxes. But there is one other unpleasant uncertainty: criticism. No one escapes it entirely. And often our careers, our emotional stability, our happiness depend on how we react to it..."

"...As Disraeli once remarked, 'It is much easier to be critical than correct'- so there will always be plenty of critics in the world, some well intentioned, others cruel. You can defend yourself against the unkind ones by learning to control your emotional reactions, by adopting a calm and rational attitude and by honestly trying to help your critics to rid themselves of their anger. But in the last analysis, your best defense is your own day-to-day conduct. It is keeping your moral standards high. It is having a clear conscience. It is living a life without any necessity whatever for deception or for concealment."

-Norman Vincent Peale

12. Why should we all learn how to cope with criticism?      0 0 0 0  
a. Because reacting to criticisms only warms one's heart.    a b c d  
b. Because reacting to criticism sometimes leads to further trouble.  
c. Because reacting to criticism makes one fulfilled.  
d. Because criticism are always correct.
13. According to the author, what is the best defense against criticism?      0 0 0 0  
a. a person's ability to counter-criticize  
b. one's ability to act with deaf ears  
c. one's day to day conduct  
d. one's anger
14. Why is it easier to be critical than correct?      0 0 0 0  
a. Because it is easier to find a flaw in someone else.  
b. Because it is easier to control another person's opinion.  
c. Because some people are able to control their opinion.  
d. Because some people find it easier to praise other people.
15. What is the best title for the above selection?      0 0 0 0  
a. Criticisms, Its Uses and Abuses  
b. How to Cope with Criticisms  
c. The Ups and Downs of Criticisms  
d. Best Criticisms

- E. *Hair goes on growing after a person dies because the cells of the body go on working until they have exhausted their fuel supply.*

The hair follicle is composed of two layers—an outer layer of cells forming the outer root sheath and an inner layer of horny, fibrous oblong cells. The hair grows upwards from the bottom of the follicle by multiplication of the soft cells, which becomes elongated and pigmented to form the fiber-like substance of the hair shaft.

The soft cells at the base of the follicle need the nourishment brought to them and all the other cells of the body by the bloodstream.

From: Book of Questions and Answers  
Octopus Press

16. A person's fingernails, just like the hair, keeps on growing even after a person's death. What could account for this occurrence?

0 0 0 0  
a b c d

- a. The dead person's body keeps on producing new cells to continue the growth of the fingernails and hair.
  - b. The dead person's body preserves all the cells so hair and nail growth continue.
  - c. The energy supply of the cells of the hair and the nails have not yet been fully exhausted so growth still continues.
  - d. Hair and nails just never stop growing.

17. What would happen to the soft cells at the base of the follicle if no nourishment comes in?  a  b  c  d

- a. They would stop multiplying.
  - b. They would produce white hair.
  - c. They would go on dividing.
  - d. They would harden.

18. What could possibly explain the occurrence of white hair?       a     b     c     d

- a. The soft cells produce white pigment which gives the hair its white color.
  - b. The soft cells die which gives the hair its white color.
  - c. The absence of pigments from the follicle accounts for white hair.
  - d. The absence of follicle due to old age causes white hair.

19. Which of the following statements is NOT true?

0 0 0 0  
a b c d

- a. Hair follicle is composed of two layers.
- b. Hair grows from the tip of the follicle.
- c. Hair follicle is composed of soft cells.
- d. The soft cells need the nourishment brought in through the bloodstream.

F. *The concepts of Epicureanism are largely known to us through Lucretius, rather than Epicurus. The latter, born an Athenian citizen in Samos in 341, founded his school in his garden, a symbol of retirement from the world, in 306 and died in 270 B.C.*

*For the Epicurean, the universe was chaotic and anarchic, composed of atoms and the void. All knowledge was acquired by sense perception; observation was therefore essential to understanding. There were an infinite number of worlds, formed by the chance combination of atoms in infinite space. The gods, unconcerned about human affairs, lived in the void between the different worlds. They were not to be regarded superstitiously or feared, only to be envied.*

*Man himself was made up of body and soul. Death was not to be feared. There was no such thing as immortality; after death, atoms of the soul were scattered. The aim of life therefore was pleasure, the pursuit of which brought about happiness, the final end. The injunction to follow nature meant, seek pleasure. Everything was desirable insofar as it led to pleasure, but above all, the aim was absence of pain and the achievement of peace of mind. This would be obtained personally by self-control, the mastery and limitation of desires as far as possible to those that were strictly necessary. Also, it implied limitation of social relationships - "live unknown"- refusal to be involved in family or political affairs, skepticism toward religion, which the Epicureans considered largely superstition.*

From: The Great Political Theories, Vol. I  
by Michael Curtis

20. Who was born an Athenian citizen in Samos in 341 B.C.?

0 0 0 0  
a b c d

- a. Plato
- b. Aristotle
- c. Lucretius
- d. Epicurus

21. What do the Epicureans think about the universe?      0 0 0 0  
a. It was disorderly with an absence of rule.  
b. It was orderly and without a ruler.  
c. It was atomic and filled with objects and humans.  
d. The universe was full of life moving in an orderly manner.
22. What was the Epicureans' ultimate goal?      0 0 0 0  
a. The pursuit of being godlike.  
b. To bring order out of the chaos.  
c. The pursuit of happiness.  
d. To bring chaos into the world.
23. Epicureanism had a different view about religion. What was it?      0 0 0 0  
a. Religion controls man.  
b. Religion brings man closer to God.  
c. Religion is merely a superstition.  
d. Religion is man's way of knowing God.
24. Which of the following is not a belief of the Epicureans?      0 0 0 0  
a. There should be no limit to man's desires.  
b. Man should exercise restraint and self-control.  
c. Man should live unknown.  
d. Limit desires to those which are strictly necessary.

G. *What is the happy life? Self-sufficiency and abiding tranquility. This is the gift of greatness of soul, the gift of constancy which perseveres in a course judged right. How can these attitudes be attained? By surveying truth in its entirety, by safeguarding in every action order, measure, decorum, a will that is without malice and benign, focused undeviatingly upon reason, once amiable and admirable. The wise man's soul should have the quality of a god's. What can a man desire if he possesses everything that is honorable? If the dishonorable can contribute to the optimum state, then the happy life will be comprised of elements other than honorable. And what could be meaner or stupider than to weave the good of the rational soul out of irrational strands?*

- Seneca

25. What constitutes a happy life?      0 0 0 0  
a. attainment of everything that one desires  
b. being at peace with everyone  
c. self-sufficiency and tranquility  
d. none of the above      a b c d
26. How can one attain a happy life, according to Seneca?      0 0 0 0  
a. by being hypocritical  
b. by getting what one wants no matter what the cost  
c. both a and b  
d. none of the above      a b c d
27. What is an indication that a man's soul is already like that of a god's?      0 0 0 0  
a. He is at peace with others.  
b. He desires everything.  
c. He attains everything he desires without limitation.  
d. He discerns truth, focuses upon reason, has a will that is without malice.      a b c d
28. Which of the following statements is NOT true based on the selection?      0 0 0 0  
a. Self-sufficiency does not bring happiness.  
b. Greatness of soul is attainable.  
c. Man should aim to have a soul like that of a god's.  
d. Man should not desire that which is dishonorable.      a b c d

H. ***Love in the Open Hand***

by Edna St. Vincent Millay

*Not in a silver casket cool with pearls,  
Or rich with red corundum or with blue,  
Locked, and the key withheld, as other girls  
Have given their loves, I give my love to you:*

*Not in a lover's knot, not in a ring  
Worked in such fashion, and the legend plain-  
Semper Fidelis, where a secret spring  
Kennels a drop of mischief in the brain:*

*Love in the open hand, nothing but that,  
Ungemmed, unhidden, wishing not to hurt,  
As one should bring you cowslips in a hat  
Swung from the hand, or apples in her skirt,  
I bring you, calling out as children do:  
"Look what I have!- and these are all for you."*



I. One day, the guru and his young disciples were seated on the bank of the river, talking and praying together. An uprooted tree came floating down the river and caught in the bank just in front of them. Caught in the branches of the tree was a scorpion which must have been trapped on the tree when it was uprooted by the floodwater upstream. The guru knew that, inevitably, the scorpion would fall from the tree and be drowned in the river. So he reached his hand out to take the scorpion from the tree and to put it safely on land. But as he reached out to rescue the scorpion, it stung his hand, and the guru had to take his hand away in pain.

*After a moment, the guru reached out to rescue the scorpion again, and the scorpion stung him again. The guru kept trying to save the scorpion and the scorpion kept stinging him until his hand was red and swollen in pain.*

*Finally, one of the young disciples could control himself no longer and he burst out: "Master, why do you keep trying to rescue that foolish scorpion that doesn't even want to be saved?" The guru looked very patiently at the impetuous young disciple and said: "Should I be untrue to my nature which is to be compassionate just because this scorpion is being true to its nature to sting?"*

-Henri Nouwen

34. Why did the guru attempt to remove the scorpion from the branches?      0 0 0 0  
a b c d
- a. Because he did not want the scorpion to die.
  - b. Because he hates scorpions.
  - c. Because he wants to throw the scorpion into the waters.
  - d. Because the scorpion might sting someone else.
35. What does the statement, "Should I be untrue to my nature which is to be compassionate just because this scorpion is being true to its nature to sting?" mean?      0 0 0 0  
a b c d
- a. One should always be compassionate even if it is not properly reciprocated.
  - b. One should stop giving if it hurts.
  - c. One should be compassionate only to those who know how to appreciate.
  - d. One should always count one's blessings.
36. What is the best title for the selection?      0 0 0 0  
a b c d
- a. The Scorpion
  - b. The Guru
  - c. True Compassion
  - d. The Sting
- J. *Although many quarts of blood pass through the heart each day, the heart cannot utilize the blood within itself, but rather is sustained by branches of arteries originating externally. These coronary arteries can become blocked by the deposition of fatty material (including cholesterol), connective tissue fibers, and calcium deposited in the vessel walls. If the blockage is severe, numerous heart muscle cells become oxygen starved and the heart stops. In less severe cases, only part of the heart muscle dies as a result of the blockage. The dead muscle is replaced by scar tissue and the heart continues to function, though less efficiently. Diet, stress,*

smoking, and alcohol all contribute to the problem of heart attacks. Interestingly, although fats in the diet are often blamed for heart attacks, about 70% of the heart's energy requirement normally is derived from oxidation of fatty acids.

From: Biology  
by Norstog and Meyerriecks

37. What statement is NOT true based on the selection?      0 0 0 0  
a. Scar tissue replaces dead heart muscles.  
b. The heart is sustained by branches of arteries originating externally.  
c. Oxygen is essential for the heart muscles to function properly.  
d. The heart utilizes the blood within itself.
38. Coronary arteries can become blocked by      0 0 0 0  
a. food deposits.  
b. blood deposits.  
c. too much oxygen in the blood.  
d. deposits of fatty materials, connective tissue fibers and calcium.
39. What causes heart stoppage?      0 0 0 0  
a. absence of carbon in the heart muscles  
b. presence of cholesterol in the heart muscles  
c. absence of oxygen in the heart muscles  
d. presence of oxygen in the heart muscles
40. Fats in the diet      0 0 0 0  
a. are always useless.  
b. normally provides the heart's energy requirement.  
c. always causes heart blockage.  
d. normally gets wasted.
- K. *Cancer is a disease in which cells somehow become activated into uncontrolled multiplication and thus produce an overgrowth, or tumor, composed of malformed, malignant cells. Cancerous tumors can occur in almost any tissue of the body, although some are more often affected than others. Three general kinds of cancer, named after the tissues most often affected, are recognized: carcinomas (from karkinoma, the Greek word for cancer), which commonly involve epithelial tissue (epidermis and lining membranes); sarcomas (Greek sarkoma, "flesh"), which affect mainly connective tissues, including bone; and leukemias, which start in the bone marrow and lymphatic tissues and spread in the blood and lymph.*      From: Biology  
by Norstog and Meyerriecks

41. How does cancer occur?      0 0 0 0  
a b c d

  - a. Cells reproduce what is normally enough.
  - b. The cells replace the dead cells in the body.
  - c. The cells uncontrollably multiply producing malignant cells.
  - d. The cells naturally reproduce malformed, malignant cells.

42. It is believed that cancer      0 0 0 0  
a b c d

  - a. can occur in any tissue of the body.
  - b. affects certain tissues of the body more than it does to other tissues.
  - c. both a and b
  - d. neither a nor b

43. What do you call the type of cancer which affects connective tissues?      0 0 0 0  
a b c d

  - a. carcinoma
  - b. sarcoma
  - c. leukemia
  - d. all of the above

44. Cancer found in the skin would most likely be classified as      0 0 0 0  
a b c d

  - a. carcinoma
  - b. sarcoma
  - c. leukemia
  - d. dermacoma

45. What is the basis for the classification of cancers?      0 0 0 0  
a b c d

  - a. the cancer's size and weight
  - b. the cancer's location and the tissue affected
  - c. the cancer's length of existence
  - d. the cancer's extent of growth

L. When the tissues of the body are wounded, several events occur that resist the loss of blood from the cut vessels and begin the healing processes. At the wound site, blood platelets swell and burst, releasing chemicals that cause the arteries to constrict and thus slow the loss of blood. The platelets also initiate a process that results in activation of prothrombin activator, an enzyme that converts a blood-protein constituent called prothrombin to thrombin. In the presence of calcium ions, thrombin catalyzes the conversion of another blood-protein component, fibrinogen, into fibrin threads. The fibrin threads form a fine meshwork in the blood and together with trapped cells and other blood particles make a clot and block further the escape of blood from the wound. In the hereditary disease

*hemophilia, there is a deficiency in the factors that activate the formation of prothrombin activator; the hemophiliac lacks the ability to form clots at the point of wounding and may bleed to death from an apparently minor cut or abrasion.*

From: Biology by Norstog and Meyerriecks

46. What is the best title for the paragraph?      0 0 0 0  
a. Blood and Its Uses      a b c d  
b. The Evolution of Blood  
c. The Importance of Blood Clots  
d. How a Blood Clot is Formed
47. What part of the blood plays an essential role in clot formation?      0 0 0 0  
a. blood proteins      c. platelets  
b. fibrin      d. red blood cells
48. What could happen to a hemophiliac should he get wounded?      0 0 0 0  
a. bleed to death  
b. blood clots will form immediately  
c. he will have unlimited supply of blood  
d. his blood will become infected
49. What is the first step in the formation of a blood clot?      0 0 0 0  
a. Blood from cut vessel begins to flow  
b. Blood platelets swell and burst, releasing chemicals  
c. Prothrombin is activated  
d. Formation of fibrin threads
50. How are fibrin threads formed?      0 0 0 0  
a. Fibrinogen is converted into fibrin threads by the platelets.  
b. Thrombin and calcium ions catalyzes the conversion of fibrinogen to fibrin threads.  
c. Fibrin threads occur naturally in the blood.  
d. Fibrin threads are the result of the combination of the blood and its platelets.

## Kasing-Kahulugan

**PANUTO:** Piliin ang salitang kasing-kahulugan ng salitang nakapahilig.

Halimbawa:

1. Isang **bantog** na grupo ng mananayaw ang 0 0 0  
a b c d  
Bayanihan Dancers.  
a. tanyag      b. di-kilala      c. bago      d. batikan

1. **Nauulinigan** ang pag-uusap ng grupo dahil sa lakas ng 0 0 0 0  
a b c d  
timig nila.  
a. nahihimigan      c. nakikita  
b. napakikinggan      d. nararamdaman
2. Karapatan ng bawat batang Pilipino ang magkaroon ng 0 0 0 0  
a b c d  
pamilyang **mag-aaruga** sa kanya.  
a. mag-aalaga      c. gagabay  
b. magsasaway      d. tutulong
3. **Nagugulumihan** si Rochelle kung anong kurso ang kanyang 0 0 0 0  
a b c d  
kukunin sa kolehiyo.  
a. nagtataka      c. nagpapasalamat  
b. natutuwa      d. nalilito
4. **Tigib** na ng pasahero ang dyip nang ito ay umalis. 0 0 0 0  
a b c d  
a. punung-puno      c. kakaunti  
b. kulang-kulang      d. marami-rami
5. Hindi na nakapaggil ang kaawa-awang katulong kaya 0 0 0 0  
a b c d  
**ibinulalas** ang sama ng loob sa mapag-aping amo.  
a. isinabi      c. isinigaw  
b. inilahad      d. ibinulgar
6. **Iminungkahi** ang pagbabawal magtapon ng basura sa 0 0 0 0  
a b c d  
di-wastong lugar.  
a. ipinatupad      c. isiniwalat  
b. inilahad      d. kinalat

7. Madalas silang mapaaway dahil sa kanilang <i>kapalaluan</i> .	0 0 0 0
a. kalabisan	a b c d
b. kayabangan	c. kagandahan d. kasinungalingan
8. Pakiramdam niya ay labis-labis ang kanyang suliranin kung kaya siya ay <i>maliglig</i> .	0 0 0 0
a. matalino	c. magulo ang isip
b. masaya	d. malinaw ang isip
9. <i>Maalwan</i> lamang ang nararapat na dalahin ng isang bata.	0 0 0 0
a. magaan	c. malaki
b. maganda	d. maliit
10. Sa <i>palihan</i> nagagawa ang mga itak, espada at iba pang yari sa bakal.	0 0 0 0
a. palikuran	c. palengke
b. pamilihang-bayan	d. pandayan
11. Hindi mo dapat gawing katuwaan ang <i>pagkutya</i> sa kapwa.	0 0 0 0
a. pagsumpong	c. pagtampo
b. panunuksong	d. pagkurot
12. Ang pag-eensayo ng banda ay <i>nakabubulahaw</i> .	0 0 0 0
a. nakaijinis	c. nakatutuwa
b. nakagugulo	d. nakababahala
13. Dapat kang <i>magkamal</i> ng salapi sa mabuting paraan lamang.	0 0 0 0
a. magmana	c. mag-ipon
b. magnakaw	d. maghanda
14. Ilan taon ding <i>siniil</i> ng mga dayuhan ang mga Pilipino.	0 0 0 0
a. tinago	c. timimpi
b. inapi	d. pinalaya
15. Ang anurnang <i>alitan</i> ay di dapat hayaang magtagal.	0 0 0 0
a. proyekto	c. hiniram
b. pagkakaibigan	d. di-pagkakasunduan
16. <i>Laganap</i> ang krisis kaya tayo ay dapat magtipid.	0 0 0 0
a. kalat	c. limitado
b. kapos	d. pantay

17. Madaling ***nababalino*** sa lihis na gawain ang mga kabataang laki sa lansangan.

  - natutuwa
  - namamatik-mata
  - nagaganyak
  - nakaiiwas

18. Maraming ***himutok*** ang mga manggagawa laban sa kanilang kumppanya gaya ng di pagtaas ng kanilang sahod.

  - nais
  - balakid
  - kilos
  - reklamo

19. Walang ***minimithi*** ang iyong magulang kungdi ang mabigyan ka ng magandang kinabukasan.

  - dinadalandin
  - ninanais
  - ikinatutuwa
  - tinitiis

20. Iwasang ***sumugba*** sa alanganin.

  - lumusong
  - tumigil
  - lumayo
  - lumapit

21. Huwag mong ***pukawin*** ang batang nahihiimlay.

  - libangin
  - palayain
  - pigilin
  - gisingin

22. Hindi ka dapat ***magmaktol*** kung ika'y napagsasabihan.

  - umiyak
  - magtampo
  - magdabog
  - lumayas

23. Tuwing Marso, ang puno ng mangga ay ***namumutiktik*** sa bunga.

  - maraming-marami
  - bilang na bilang
  - kakaunti
  - malalaki

24. ***Kumipot*** ang Maynila sa dami ng taong naninirahan dito.

  - lumuwag
  - lumaki
  - sumikip
  - lumiit

25. ***Patang-pata*** siya nang marating ang tuktok ng bundok Apo.

  - pagod na pagod
  - masiglang-masigla
  - masayang-masaya
  - hinayang na hinayang

## Kasalungat

**PANUTO:** Piliin ang salitang kasalungat ang kahulugan sa salitang nakapahilig.

Halimbawa:

1. Hiniling ng matandang maysakit na siya ay **kalingain**

a. arugain  
b. pabayaan

c. alagaan  
d. bantayan

a b c d

1. Ang pag-iibigan nina Florante at Laura ay **matimyas**.     
a b c d
- a. di-magmamaliw      c. dalisay  
b. di-totoo                d. wagas
2. Dinidiligan ng pataba ang halaman upang ito'y **yumabong**.     
a b c d
- a. lumago                c. malanta  
b. dumami                d. lumiiit
3. Namamasyal siya sa parke upang mapawi ang **lumbay**.     
a b c d
- a. galak                 c. sama ng loob  
b. lungkot                d. gulat
4. Hinintay namin ang **pagdaong** ng *Superferry* upang salubungin si Ate.     
a b c d
- a. pag-alis                c. paghimpil  
b. paglapag                d. pagtigil
5. **Palasak** na ang paggamit ng kompyuter.     
a b c d
- a. pambihira                c. laganap  
b. pangkaraniwan            d. matipid
6. **Nabaghan** siya nang dumating ang kanyang amang dalawang taong naghanap-buhay sa ibang bansa.     
a b c d
- a. nagulat                 c. nainis  
b. nagtaka                 d. nahimatay

Filipino	Kasalungat
7. Huwag mong ugaliin ang <b>umalipusta</b> ng iyong kapwa. a. laitin b. purihin	c. kagalitan d. bastusin 0 0 0 a b c d
8. <b>Pahapay</b> na ang mga maliliit na kumpanya dahil sa pagbagsak ng ekonomiya. a. paunlad b. taglid	c. pabagsak d. pasara 0 0 0 a b c d
9. Makapal at <b>magalas</b> ang palad ng mga mason at karpintero. a. mabuto b. magaspang	c. maliksi d. makinis 0 0 0 a b c d
10. <b>Masalimuot</b> man ang buhay natin, di tayo dapat mawalan ng pag-asa. a. mahirap b. magulo	c. maayos d. malungkot 0 0 0 a b c d
11. <b>Sinaplutan</b> man lamang sana nila ang sanggol bago ito ginamit sa paglilimos. a. binalutan b. tinakpan	c. dinamitan d. hinubaran 0 0 0 a b c d
12. Hindi dapat pagkatiwalaan ang mga taong <b>taksil</b> na mabait lamang kung kaharap mo. a. suwail b. matapat	c. hunghang d. matalino 0 0 0 a b c d
13. Tila walang kapaguran ang <b>mabungalngal</b> na bibig ni Lina. a. tahimik b. masalita	c. madaldal d. masakit 0 0 0 a b c d

14. *Napakakupad* ng takbo ng karitela kung ikukumpara sa traysikel at dyip. 0000  
 a b c d

a. napakabilis	c. napakakuyad
b. napakabagal	d. napakadali

15. Patuloy na *magdarahop* ang taong tamad. 0000  
 a b c d

a. aasenso	c. magiging salat
b. maghihikahos	d. maghihirap

16. Mahirap pakinggan and sinasabi ng taong *garil*. 0000  
 a b c d

a. utal	c. matalino
b. bulol	d. matatas

17. Kumain ka ng masustansiyang pagkain nang hindi imaging *hawas*. 0000  
 a b c d

a. payat	c. manipis
b. matipuno	d. sakitin

18. Ang labis na pagiging *hidhid* ay nakasasama rin lalo pa't hindi ka marunong magbigay sa nangangailangan. 0000  
 a b c d

a. waldas	c. matipid
b. kuripot	d. mapera

19. *Hungkag* ang bigasan dahil nasira ng bagyo ang mga palay. 0000  
 a b c d

a. salat	c. bulok
b. puno	d. bago



## Mga Kawikaan

**PANUTO:** Piliin ang salitang kasing-kahulugan ng salitang nakapahilig.

## Halimbawa:

1. Kung hindi ka maliligo, **mangangamoy-kambing** ka.

a. mamamaho      c. magiging malahayop  
b. dudungis      d. mangangati

1. ***Nag-alsal balutan*** ang katulong sa bahay dahil sa 0000  
kalupitan ng kanyang amo.  
a. nagtampo c. nagtago  
b. lumayas d. nagmaktol

2. Hindi totoo ang kanyang katapangan sapagkat ***bahag*** 0000  
***ang buntot*** niya sa harap ng paghihirap.  
a. malakas ang loob c. duwag  
b. matapang d. matiyaga

3. Dahil sa paulit-ulit na pagsisinungaling, ***basa ang papel*** 0000  
niya sa karamihan.  
a. ayaw nang paniwalaan c. ayaw nang pakinggan  
b. ayaw nang pagbigyan d. ayaw nang makasama

4. ***Kumukulo ang dugo*** ng ina ni Robin sa kanya sapagkat 0000  
hindi siya nag-aryl nang mabuti.  
a. tuwang-tuwa c. lungkot na lungkot  
b. galit na galit d. nakapapaso ang dugo sa init

5. ***Di-mahapayang gatang*** ang pagpapalitan ng kuru-kuro 0000  
ng mga mambabatas.  
a. hindi maumpisahan c. hindi masaya  
b. hindi magulo d. hindi maawat

6. Noong panahon ng pananakop ng Kastila, ang mga 0 0 0 0  
Pilipino ay *hawak sa tainga* ng mga ito.  
 a. sunud-sunuran                           c. kakampi  
 b. katuwang                               d. alipin
7. *Mabulaklak ang landas* ng taong masikap. 0 0 0 0  
 a. malabo ang kinabukasan  
 b. makulay ang kinabukasan  
 c. magulo ang kinabukasan  
 d. maganda ang kinabukasan
8. *Malit ang sisidlan* ni Mhon kaya iniiwasan siyang 0 0 0 0  
biruin.  
 a. walang lakas-loob                           c. walang malay  
 b. walang galang                               d. walang pasensiya
9. Mahilig kasing magbasa kahit sa madilim si Tina kaya 0 0 0 0  
siya ay *nagmamatang-manok*.  
 a. lumiliit ang mata                           c. lumuluwa ang mata  
 b. malabo ang mata                           d. kumikislap ang mata
10. Kung minsan, inggit ang nagiging dahilan sa 0 0 0 0  
*pagsasaulian ng kandila*.  
 a. pagkasira ng tiwala                           c. pagkasira ng pagkakaibigan  
 b. pagkasira ng pamilya                           d. pagkasira ng lipunan
11. *Pabalat-bunga* lang pala ang pagiging bukas-palad niya; 0 0 0 0  
may pulitikal pala itong kadahilanhan kaya siya  
mapagbigay.  
 a. taos-puso                                   c. pasikreto  
 b. pakunwari                                   d. sapilitan
12. *Tiklop-tuhod* ang akusado na siya ay patawarin ng 0 0 0 0  
biktima.  
 a. nagkukunwari                                   c. nagmamakaawa  
 b. nananakot                                      d. gumagapang



20. *Nilubugan ng araw* ang mga taong nasalanta ng bagyo      0 0 0 0  
 a b c d  
 ang mga tirahan.
- a. nawalan ng pag-asaya      c. naputulan ng kuryente  
 b. dumilim ang paligid      d. naghirap
21. Hindi mo matatagpuan sa kanilang bahay si Cecile,      0 0 0 0  
 palibhasa ay *may puyo sa talampakan*.
- a. mahilig matulog      c. mahilig tumakbo  
 b. mahilig mamasyal      d. mahilig mag-arat
22. Binata na si JB kaya siya ay *naniningalang-pugad* na.      0 0 0 0  
 a b c d  
 a. naninigarilyo      c. nanliligaw  
 b. nagbabarkada      d. naninirahan nang mag-isa
23. Malimit na may kabanggaan si Malou sa opisina dahil      0 0 0 0  
*maanghang ang kanyang dila*.  
 a b c d
- a. pikon      c. masakit magsalita  
 b. walang pakialam      d. masayahin
24. Di napaunlakan ni Ana ang imbitasyong manood sila ng      0 0 0 0  
 sine sapagkat *butas ang kanyang bulsa*.  
 a b c d
- a. sira ang pantalon      c. nagtitipid  
 b. walang pera      d. walang panahon
25. Si Karl ay *nagtataingang-kawali*. Animo'y wala      0 0 0 0  
 siyang naririnig kahit tinatawag na.  
 a b c d
- a. matigas ang tainga      c. barado ang tainga  
 b. mahina ang pandinig      d. nagbibingi-bingihan

## Wastong Gamit

**PANUTO:** Piliin ang titik ng salitang angkop sa patlang.

Halimbawa:

1. Ang ningas-kugon ay isang kaugaliang dapat \_\_\_\_\_ iwasan o baguhin ng mga Pilipino.

0 0 0  
a b c d

- a. nang                      b. ng                      c. raw                      d. nating

1. Katungkuluan \_\_\_\_\_ sinuman ang tumulong sa kanyang kapwa. 0 0 0 0  
a b c d

- a. nang                      c. namin  
b. ng                            d. natin

2. \_\_\_\_\_ ko kay Inay ang mga kaganapan sa aming paaralan sa isang buong papel. 0 0 0 0  
a b c d

- a. Isinulat                    c. Sinulat  
b. Isinabi                     d. Sinabi

3. Ang \_\_\_\_\_ ng mga manlalaro ay dininig ng komite 0 0 0 0  
kahapon. a b c d

- a. pakiusapan                c. ipakiusap  
b. pakikipag-usap            d. pakiusap

4. Nagulat ang mga tao \_\_\_\_\_ mabalitaan ang kaguluhan 0 0 0 0  
nagaganap sa Mindanao. a b c d

- a. nang                      c. noon  
b. ng                            d. datapwat

5. \_\_\_\_\_ mo si Chin ng damit sa kabinet. 0 0 0 0  
a b c d

- a. Kunin                     c. Hanapan  
b. Utusan                    d. Hanapin

6. \_\_\_\_\_ suliranin ng pagtaas ng presyo ng gasolina ang 0 0 0 0  
pinapaksa ng pulong sa kasalukuyan. a b c d

- a. Hinggil kay                c. Hinggil sa  
b. Ayon kay                    d. Ayon sa

7. Ang paglalakbay \_\_\_\_\_ Magellan noong 1521 ang naging dahilan kung bakit nakilala ang Pilipinas sa ibang bansa. 0000  
a b c d

a. ni c. sa  
b. daw d. para kay

8. Ang pagkakalat o pagtatapon sa kung saan-saan ay \_\_\_\_\_ batas. 0000  
a b c d

a. sang-ayon c. laban sa  
b. hinggil sa d. labag sa

9. Pinatay \_\_\_\_\_ mga Hapones si Jose Abad Santos nang tanggihan niyang ibunyag ang lihim ng mga kilusang Pilipino laban sa kanila. 0000  
a b c d

a. namin c. nang  
b. ng d. noong

10. \_\_\_\_\_ mo naman sa kanila na magdala ng mapagsasaluhan. 0000  
a b c d

a. Usapin c. Ipakiusap  
b. Usap-Usapan d. Pakiusap

11. \_\_\_\_\_ G. at Gng. Reyes, matagal na nilang pinag-iipunan ang pangtustos sa pag-aarial mo sa kolehiyo. 0000  
a b c d

a. Ayon sa c. Ayon kina  
b. Ayon kay d. Sang-ayon kina

12. \_\_\_\_\_ ni Emilio Jacinto ang *Kartilya* na naglalaman ng adhikain ng Katipunan. 0000  
a b c d

a. Winika c. Isinabi  
b. Sinulatan d. Nalaman

13. Dumating ang Lola \_\_\_\_\_ kami'y nagdiwang. 0000  
a b c d

a. kaya c. marahil  
b. kung d. siguro

14. Ang pagbabara ng mga estero ay dulot \_\_\_\_\_ walang 0 0 0 0  
pakundangang pagtatapon ng basura. a b c d  
 a. rin c. natin  
 b. ng d. nila
15. \_\_\_\_\_ maaari ay magtipid tayo nang husto. 0 0 0 0  
 a. Kung c. Bagamat a b c d  
 b. Dahil d. Mandin
16. Mapadadali ang ating gawain \_\_\_\_\_ tayo ay magtutulung- 0 0 0 0  
tulungan. a b c d  
 a. upang c. kahit  
 b. kung d. ngunit
17. Masaya sila \_\_\_\_\_ napakaraming pagsubok ang 0 0 0 0  
dumarating sa kanilang pamilya. a b c d  
 a. sapagkat c. kahit  
 b. marahil d. kung
18. \_\_\_\_\_ pagod na pagod na sa biyahe si Rey ay nagawa 0 0 0 0  
pa rin niya ang mag-arat. a b c d  
 a. Bagaman c. Samakatwid  
 b. Maliban d. Maging
19. Patuloy tayong maghalinhinan sa pagroronda \_\_\_\_\_ 0 0 0 0  
di pa nahuhuli ang magnanakaw. a b c d  
 a. samantala c. palibhasa  
 b. hanggang d. bagaman
20. Nagtatalon sa tuwa si Regina \_\_\_\_\_ mapanalunan ang 0 0 0 0  
patimpalak sa pagsusulat ng maikling kuwento. a b c d  
 a. subalit c. nang  
 b. disin sana'y d. ng
21. Hindi maaring ibilanggo ang sino man dahil \_\_\_\_\_ kanyang 0 0 0 0  
pagkakautang. a b c d  
 a. na c. nang  
 b. ng d. sa

Filipino	Wastong Gamit
22. Nagpapatugtug sila _____ awiting Pilipino.	0 0 0 0 a b c d
a. sa b. nang	c. ng d. na
23. Ang _____ ng mga mamamayan na huwag munang magtaas ng presyo ng langis ay pinag-aaralan ng kinaukulan.	0 0 0 0 a b c d
a. usapin b. pakiusapan	c. ipakiusap d. pakiusap
24. Hindi _____ nabibigyang lunas ang sakit na AIDS sa ngayon.	0 0 0 0 a b c d
a. pa b. na	c. sa d. ka
25. _____ bang suliranin na hindi kayang lutasin?	0 0 0 0 a b c d
a. May b. Mayroon	c. Sino d. Anong
26. _____ patimpalak sa Balagtasan na gagasanin sa plasa.	0 0 0 0 a b c d
a. May b. Mayroon	c. Anong d. Bakit
27. _____ ba nagkaroon ng isang bulkan?	0 0 0 0 a b c d
a. Sino b. Alin	c. Ano d. Paano
28. _____ natin ang ating kapwang nangangailangan ng tulong.	0 0 0 0 a b c d
a. Abutan b. Kunin	c. Abutin d. Kunan
29. Huwag mong _____ ang sino mang nasa kapangyarihan kung nais mo lamang makakuha ng pabor.	0 0 0 0 a b c d
a. abutin b. abutan	c. kunin d. kunan
30. _____ mo ang mabibigat na dalahin ng Inay.	0 0 0 0 a b c d
a. Abutan b. Tanawin	c. Kunin d. Kunan

## Pagkilala Sa Mali

**PANUTO:** Basahing mabuti ang bawat pangungusap. Hanapin ang salita o grupo ng mga salitang may salangguhit na di wasto ang gamit. Kung walang mali, piliin ang titik e.

Halimbawa:

1. Napakaraming pamilya ang nasasalanta ng bagyo 0 0 0 0 0  
 a                      b                      c                      d                      a b c d e  
 noong isang buwan. Walang mali.  
 e

1. Ang walang kamatayang Mi Ultimo Adios ay sinulat 0 0 0 0 0  
 a                      b                      c                      d                      e                      a b c d e  
ng Rizal sa Fort Santiago. Walang mali.
2. Si Teodora Alonzo at Francisco Mercado ang mga 0 0 0 0 0  
 a                      b                      c                      d                      e                      a b c d e  
magulang ni Jose Rizal. Walang mali.
3. Hindi dapat lumikha nang buwis na hindi makakayang 0 0 0 0 0  
 a                      b                      c                      d                      e                      a b c d e  
bayaran ng kahit sino. Walang mali.
4. Iniisip rin ng ating pamahalaan ang kapakanan 0 0 0 0 0  
 a                      b                      c                      d                      e                      a b c d e  
ng mga maralita. Walang mali.
5. Mainam sa lahat ng paraan ng pag-aaral ang 0 0 0 0 0  
 a                      b                      c                      d                      e                      a b c d e  
magbalik-ral ng mga aralin bago pa man sumating ang  
 b                      c  
mga pagsusulit sa paaralan. Walang mali.

6. Ang mga payo kung binitiwan ay dapat mong  
     a              b              c  
pakinggan. Walang mali.  
     d              e
7. Mag-arat ng mabuti upang hindi masayang ang iyong  
     a              b              c              d  
pera at panahon. Walang mali.  
     e
8. Tunay nga na masipag at maalahanin ang panganay  
     a              b              c              d  
na si Rochell. Walang mali.  
     e
9. Hindi lamang sipag kundi tiyaga din ang kinakailangan  
     a              b              c  
upang magtumpay sa isang negosyo. Walang mali.  
     d              e
10. Upang maiwasan ang pagkasira ng ngipin, ipinapayo ng  
     a              b  
mga dentista na nagsisipilyo matapos kumain.  
     c              d  
Walang mali.  
     e
11. Haluin mo ang sopas ng iiba'tibang gulay. Walang mali.  
     a              b              c              d              e
12. Kundi ka kikilos at di gagawin ang iyong proyekto ay  
     a              b              c  
wala kang mapapala. Walang mali.  
     d              e
13. Alam mo ba na mayroon proyekto ang DECS na  
     a              b              c  
tinaguriang "Study Now, Pay Later"? Walang mali.  
     d              e

14. Nagtutulungan ang mga ninuno nating Ipugaw  
 a b  
 kaya nayari ang hagdan-hagdang taniman ng palay.  
 c d  
Walang mali.  
 e
- 0 0 0 0  
 a b c d e
15. Ginigising lamang daw ng Maykapal ang mga taong  
 a b  
nakalilimot sa Kanya sapagkat nagkakaroon ng  
 c d  
 kalamidad. Walang mali.  
 e
- 0 0 0 0  
 a b c d e
16. Maganda siya ngunit masungit kaya hindi siya  
 a b  
popular sa mga kamag-aran. Walang mali.  
 c d e
- 0 0 0 0  
 a b c d e
17. Upang umunlad ang bayan kailangan ang  
 a b  
pagtutulungan nang lahat. Walang mali.  
 c d e
- 0 0 0 0  
 a b c d e
18. Hindi nawawalan ng pag-asa ang mga mayroon  
 a b  
matibay na paniniwala. Walang mali.  
 c d e
- 0 0 0 0  
 a b c d e
19. Ipinakisap mo ba na pinayagan kang gamitin  
 a b c  
 ang kompyuter? Walang mali.  
 d e
- 0 0 0 0  
 a b c d e
20. Hanapan mo ng sagot sa iyong katanungan ang iyong  
 a b c d  
 guro. Walang mali.  
 e
- 0 0 0 0  
 a b c d e

21. Ayon sa mga dalubhasa, malaki raw ang naitutulong 00000  
 ng pag-eehersisyo ng pag-iwas sa pagkakaroon ng  
 a b c d e  
 c d  
 sakit sa puso. Walang mali.  
 e
22. Dapat nating iiwasan ang labis na pagkain ng mga 00000  
 a b c d e  
 a b c  
maaalat na pagkain. Walang mali.  
 d e
23. Panatilihin nating laging malinis at malayo sa 00000  
 a b c d e  
 a b  
 polusyon ang ating kapaligiran para na rin sa ating  
 c d  
 kalusugan. Walang mali.  
 e
24. Laban sa batas ang smuggling dahil ito ay isang 00000  
 a b c d e  
 a b  
 paraan ng pagsabatahe sa ekonomiya. Walang mali.  
 c d e
25. Walang kabutihang naidudulot ang droga, bagkus ito pa 00000  
 a b c d e  
 a b  
 nga ang nakasisira nang tahanan at lipunan.  
 c d  
Walang mali.  
 e

## Pag-unawa sa Binasa

**PANUTO:** Basahing mabuti ang bawat pangungusap, talata, tula, sanaysay at grapo. Piliin ang titik ng wastong sagot ayon sa iyong binasa.

### A. *Sa Langit Kong Gusto*

ni: Czarmaine Feliciano

*Gusto kong mapunta  
sa langit kong gusto  
na may mga Anghel  
na nanunuod sa akin  
sa langit kong gusto.*

*Sa mga ibon na lumilipad  
katulad nila gusto ko ring lumipad  
nang mataas na mataas sa langit  
sa langit kong gustong mapuntahan.*

*Kung mayroon lang isang hagdan patungo doon  
Aakyat na ako agad doon  
Doon sa langit kong gustong mapuntahan.*

- |   |                  |                      |                     |                                |                  |
|---|------------------|----------------------|---------------------|--------------------------------|------------------|
| 1. Ano ang nais mapuntahan ng manunula?   | a. ibon          | b. langit            | c. Anghel           | d. hagdan                      | 0 0 0<br>a b c d |
| 2. Ano ang tayutay na ginamit sa ikalawang saknong?                                   | a. pagtutulad    | b. pagwawangis       | c. pagmamalabis     | d. pagbibigay katauhan         | 0 0 0<br>a b c d |
| 3. Anong saknong ipinahihiwatig ng manunula ang pangunahing kaisipan ng kanyang tula? | a. unang saknong | b. ikalawang saknong | c. ikatlong saknong | d. walang pangunahing kaisipan | 0 0 0<br>a b c d |

### B. Kabataan: Pag-aso ng Bayan

*"Ang kabataan ang pag-aso ng bayan." Ito ang sinabi ni Dr. Jose Rizal, ang ating pambansang bayani. Malaki ang pagtitiwala niya sa angking talino at kakayahang ng mga kabataan. Naniniwala siya na mahahango ang bansang Pilipinas sa tiyak na kasawian kung sila, ang mga kabataan, ang magkakaroon ng tunay na pag-ibig sa bayan.*

*Maraming maitutulong ang mga kabataan sa pagpapaunlad ng bansa. Maaaring simulan nila ang pagmamalasakit sa kani-kanilang mga pamayanahan. Sa mga proyektong inilulunsad ng pamahalaan, may mga gawaing pangkabataan katulad ng pagpapaganda ng kapaligiran at paglilinis ng mga sari-sariling bakuran. Makatutulong din ang mga kabataan sa pagpapanatili ng katahimikan at kapayapaan sa mga pamayanahan. Ngunit, bakit tila yata ang mga kabataang ito ang bibigo sa dakilang pangarap ng yumaong bayani? Bakit tila nais nilang sikilin ang damdaming makabayang siyang sandata sa pagtatanggol sa Inang Bayan?*

Mula sa Likha IV nina Samonte, et al.

4. Alin sa mga sumusunod ang HINDI nagpapakita ng pagmamalasakit sa pamayanahan?
- Pakikiisa sa mga proyekto ng pamayanahan.
  - Pagpapanatili ng kapayapaan at katahimikan.
  - Paglilinis ng mga sari-sariling bakuran.
  - Pakikiisa sa kapuwa kabataang may masamang bisyo.
- 0 0 0  
a b c d
5. Paano maiaahon ng kabataan ang bansang Pilipinas sa tiyak na kasawian?
- Sa pamamagitan ng pagkakaroon ng tunay na pag-ibig sa bayan.
  - Sa pamamagitan ng pagtugon sa kani-kaniyang kagustuhan lamang.
  - Parehong tama ang a at b
  - Walang tamang sagot.
- 0 0 0  
a b c d

6. Ano ang nadarama ng may-akda sa kabataan na kanyang ipinahiwatig sa dalawang huling pangungusap ng talata?      0 0 0 0  
a b c d
- Tuwa sapagkat tunay na pag-asaya ng bayan ang kabataan.
  - Lungkot dahil tila bibiguin ng mga kabataan ang paniniwala ni Rizal.
  - Galak dahil patuloy ang kabataan sa pagpapaunlad ng bayan.
  - Dalamhati sapagkat naaalala niya ang kabataan ni Rizal.
7. "Ang kabataan ay pag-asaya ng bayan." Ano ang implikasyon ng pangungusap na ito?      0 0 0 0  
a b c d
- Masagana ang bayan.
  - Mapayapa ang bayan.
  - May suliranin ang bayan.
  - May bayani ang bayan.
- C. *Ang pang-agham na pangalan ay Ixora coccinea L. at karaniwang tinatawag na halamang Santan sa ating bayan. Ito ay isa sa mga kaaya-ayang halaman na pampalamuti. Maraming klase ang Santan - may puti, pula, dilaw at malaginto. Iba-iba rin ang laki - may mahaba pero makitid ang mga dahon, samantalang ang iba ay mas malapad at maikli. May mabangong Santan at mayroon ding walang amoy. Ang Ixora coccinea L. ay galing sa India. Mahalaga ito dahil sa maaaring ipanggamot. Ang solusyon mula sa pinakulong ugat ay maaaring purga. Maaaring ipainom sa nagduduwal at sa sinisinok. Nakatutulong ito sa pagkakaroon ng gana sa pagkain. Mabuti rin ito sa di dinadatnan at nagtatae. Para sa makating lalamunan, maaaring ipangmumog ito. Iyong binayong sariwang sanga nito ay mainam na gamot at pantapal sa pilay, mga maysakit na bahagi ng katawan, eksema at sa mga galis. Mabisang gamot ang Santan.*

Hango sa: Likha IV nina Samonte, et al

8. Ano ang *Ixora coccinea L.*?      0 0 0 0

a b c d

- Pangalan ng punungkahoy.
- Pang-agham na pangalan ng Santan.
- Pang-agham na pangalan ng prutas.
- Pang-agham na pangalan ng mga halamang namumulaklak.

Hango sa: Gamiting Pilipino nina Buensuceso, et al.

13. Ano ang pangunahing diwa ng seleksyon?      0 0 0 0  
 a. Ang bilang ng nababasa      c. Ang kahalagahan ng pagbabasa  
 b. Ang kahalagahan ng aklat      d. Ang hirap ng pagbabasa
14. Bakit mahalaga ang pagbabasa?      0 0 0 0  
 a. Sapagkat sa halos lahat ng gawain, kasangkot ang pagbabasa.  
 b. Sapagkat mararating ang daigdig ng pangarap sa pagbabasa.  
 c. Lahat ng nabanggit ay tama.  
 d. Walang tamang sagot.
15. Ano ang pinakamainam na pamagat ng nabasa?  
 a. Ang Kahalagahan ng Pagbabasa  
 b. Pagbabasa at Kaunlaran  
 c. Pagbabasa ng mga Pilipino  
 d. Sa Makulay na Mundo ng Pagbabasa
- E. *Nakikita sa mata ang iba't ibang emosyon. Tuwa, lungkot, pighati, pangamba, pag-asam, pakiusap. Ito ang salamin ng kaluluwa ng tao. Sa pamamagitan nito, nakapagpapahayag siya ng pag-ibig, nakakakuha ng pansiñ, nanunuksø, at maaaring magbadya ng galit. Noon, ang mata ay isa lang bahagi ng mukha. Ngayon, ito'y pinalalamutian sa kasayahan, at ginagamit sa kasamaan. Ngunit maaari rin itong puhunan sa pagandahan. Tunay ngang maraming gamit ang matang minumuta, kinakapitan ng sakit, lumalabo at ginagamit sa pagtingin.*
- Hango sa: Gamiting Pilipino nina Buensuceso, et al
16. Ano ang paksang pangungusap sa talata?      0 0 0 0  
 a. Nakikita sa mata ang iba't ibang emosyon.  
 b. Ito ang salamin sa kaluluwa ng tao.  
 c. Sa pamamagitan nito, nakapagpapahayag siya ng damdamin.  
 d. Tunay ngang maraming gamit ang matang minumuta, kinakapitan ng sakit, lumalabo at ginagamit sa pagtingin.
17. Ano ang pinakamainam sa pamagat sa talata?      0 0 0 0  
 a. Ang Mga Emosyon sa Mata      c. Ang Iba't Ibang Gamit ng Mata  
 b. Mata: Bahagi ng Mukha      d. Mga Sakit sa Mata

18. Alin sa mga sumusunod ang hindi nabanggit na nagagawa ng mata? 0 0 0 0  
a b c d

  - a. nagpapahiwatig ng emosyon
  - b. nagpapakita ng matinding karamdaman
  - c. nagbabadya ng galit
  - d. nanunukso

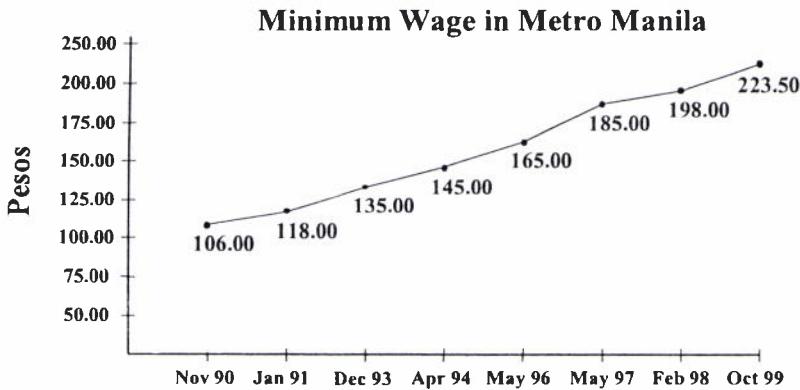
19. Paano nagbago ang pananaw ng tao hinggil sa mga mata? 0 0 0 0  
a b c d

  - a. Natutuhan na nilang gamitin ang mata upang magpapahiwatig ng iba't ibang emosyon.
  - b. Natuklasan nila na ang mata ay nakikitaan ng sakit.
  - c. Natuklasan nila na ang mata ay maaaring mabulag.
  - d. Natutuhan nila na may palamuti para sa mga mata.

20. Anong parirala ang nagpapahiwatig ng paggamit ng mata sa kasamaan? 0 0 0 0  
a b c d

  - a. mapungay na mata
  - b. matang nagsusumamo
  - c. nanlilisik na mata
  - d. matambaka

F. Makikita sa ibaba ang tsart ng Minimum Wage sa Maynila mula 1990 hanggang 1999. Ang mga tuldok ay kumakatawan sa pasahod sa iba't ibang taon



### Dates

Source: Regional Tripartite Wages & Productivity Board - NCR

21. Tungkol saan ang grapong nabasa? 0 0 0 0  
 a. Pinakamataas na pasahod sa Maynila sa iba't ibang taon. a b c d  
 b. Pinakamababang pasahod sa Maynila sa iba't ibang taon.  
 c. Regional Tripartite Wages and Productivity Board.  
 d. Bilang ng mga manggagawang napasahod sa iba't ibang taon.
22. Gaano kalaki ang pagkakaiba ng pasahod noong Oktubre 1999 at noong Mayo 1996? 0 0 0 0  
 a. P 78.50 c. P 388.50  
 b. P 38.50 d. P 58.50
23. Kailan nagkaroon ng pinakamababang pagtaas ng pasahod ayon sa grapo? 0 0 0 0  
 a. Nobyembre 1990 c. Disyembre 1993  
 b. Enero 1991 d. Abril 1994
24. Gaano katagal naging pinakamababang pasahod ng mga empleyado ang halagang P 145? 0 0 0 0  
 a. dalawang buwan c. limang buwan  
 b. dalawampu't apat na buwan d. dalampu't limang buwan
25. Ilang beses nagkaroon ng dalampung pisong (P 20) pagtaas sa minimum wage? 0 0 0 0  
 a. isa c. tatlo  
 b. dalawa d. wala

G.

	Brunei	RP.	Japan	China	Malaysia	Thailand	S. Korea	India
Budget na Pang-Militar	\$ 357 M	\$ 1 B	\$ 41.1 B	\$ 11 B	\$ 3.3 B	\$ 2 B	\$ 13.2 B	\$ 10 B
% ng Budget Militar sa GDP	6.5%	1.5%	1.1%	1.6%	3.75%	1.5%	3.1%	2.1%
Bilang ng Tropang Militar	5,000	110,000	236,300	2,480,000	105,000	306,000	672,000	1,173,000
Bilang ng Sasakyang Pandagat	6	88	179	1,149	56	149	198	140
Bilang Pangdilignang Sasakyang Panginipawid	6	141	517	4,086	104	234	568	975

Hango sa: Asiaweek June 9, 2000 ed. (International Institute for Strategic Studies, London)

26. Anong pamagat ang angkop sa tsart sa itaas? 0 0 0 0  
a b c d

  - Badyet para sa Militar ng Iba't Ibang Banssa
  - Kalagayang Pang-Ekonomiya
  - Badyet at Katayuang Pangmilitar ng mga Piling Banssa
  - Bilang ng mga Militar sa Iba't Ibang Banssa

27. Anong bansa ang may pinakamataas na bilang ng tropa? 0 0 0 0  
a b c d

a. Japan	c. India
b. South Korea	d. China

28. Anong bansa ang may inilalaang pinakamalaking porsiyento 0 0 0 0  
ng GDP para sa badyet militar?  
a b c d

a. Japan	c. Brunei
b. South Korea	d. Malaysia

29. Anong bansa ang may pinakamalaking GDP? 0 0 0 0  
a b c d

a. Japan	c. Malaysia
b. Brunei	d. South Korea

30. Ano ang maaaring dahilan kung bakit mababa lamang ang 0 0 0 0  
bilang ng katayuang pangmilitar ng Brunei?  
a b c d

  - Kulang sila sa pananalapi.
  - Maliit na bansa lamang ang Brunei.
  - Hindi nila kailangan ang militar.
  - Walang nais magsundalo sa kanilang mga tao.

## Pagtatalata

**PANUTO:** Basahing mabuti ang bawat pangungusap at sagutin ang mga tanong na sumusunod dito.

I.

- A. Ayon sa batas na ito, pagbabayarin ang mga may-ari ng kumpanya at sasakyang na nakapipinsala sa kalidad ng hangin dahil sa mga usok na binubuga nito.
- B. Ang “Clean Air Act” ay isang batas na naglalayong mapanatiling malinis ang ating hangin.
- C. Sa ibang banda naman, ang mga kumpanyang magkakabit o maglalagay ng mga gamit laban sa polusyon sa kanilang lugar ay bibigyan ng “tax break.”
- D. Ano ang ba ang “Clean Air Act”?

1. Ano ang wastong ayos ng mga pangungusap na makabubuo ng isang makabuluhang talata?      0 0 0 0  
a b c d
  - a. A-D-B-C
  - b. B-D-A-C
  - c. D-A-B-C
  - d. D-B-A-C
2. Kung daragdagan ng isang pangwakas na pangungusap ang mga nasa itaas, alin sa mga sumusunod ang pinaka-angkop?  
 a. Ang “Clean Air Act” ang tamang solusyon sa lahat ng polusyon.  
 b. Alamin ang tungkol sa “Clean Air Act”.  
 c. Kung ikaw ang may-ari ng kumpanya, sang-ayon kaba sa “Clean Air Act”?  
 d. Tumulong mapanatiling malinis ang hangin.      0 0 0 0  
a b c d
3. Ano ang pinaka-angkop na pamagat sa nabuong talata?      0 0 0 0  
a b c d
  - a. Ang Kalinisan
  - b. Ang Clean Air Act
  - c. Ang Hangin
  - d. Ang Kumpanya

**II.**

- A. Ayon sa saligang batas, maraming mga katangiang dapat taglayin ang sino mang nagnanais na maging Presidente ng bansa. 0 0 0 0  
a b c d
- B. Ikalawa, nararapat din na siya ay rehistradong botante at marunong bumasa at sumulat. 0 0 0 0  
a b c d
- C. Isa pang mahalagang katangiay kinakailangang 40 taon man lamang siya sa araw ng halalan. 0 0 0 0  
a b c d
- D. Isa sa mga katangiay ito ay nararapat na isa siyang katutubong ipinanganak na mamamayan ng Pilipinas. 0 0 0 0  
a b c d
- E. At ang huli ay nararapat na siya ay residente ng Pilipinas sa loob ng sampung taon bago dumating ang halalan. 0 0 0 0  
a b c d
4. Ano ang wastong pagkakasunud-sunod ng mga pangungusap na makabubuo ng makabuluhang talata? 0 0 0 0  
a b c d
- a. A-B-C-D-E                                   c. A-D-B-C-E  
b. A-B-D-C-E                                   d. A-D-C-B-E
5. Ano ang pamamaaang ginamit upang mabuo ang talata? 0 0 0 0  
a b c d
- a. pagbibigay ng sanhi at bunga  
b. paglalarawan  
c. paghahambing  
d. pag-iisa-isa o enumerasyon
6. Anong pangungusap ang nagsasabing hindi maaaring maging Presidente ng bansa ang isang dayuhan? 0 0 0 0  
a b c d
- a. pangungusap B                                   c. pangungusap D  
b. pangungusap C                                   d. pangungusap E

**III.**

- A. Ang mga ito ay nagmula sa Gitnang Asya at naglakad sa mga tulay na lupang nagkakabit ng iba't ibang bahagi ng Asya sa Pilipinas. 0 0 0 0  
a b c d
- B. Sila ay sinundan ng Indones na galing sa Timog Silangang Asya. 0 0 0 0  
a b c d
- C. Ang pinakaunang pangkat ng mga tao sa Pilipinas ay ang mga Ita o Negrito. 0 0 0 0  
a b c d
- D. Ang huling pangkat naman na dumating upang manirahan dito sa ating bansa ay ang mga Malay na nagmula rin sa Timog Silangang Asya. 0 0 0 0  
a b c d

7. Ano ang wastong pagkakasunud-sunod ng mga pangungusap na makabubuo ng isang makabuluhang talata?      0 0 0 0  
a. A-B-C-D      c. C-B-D-A  
b. C-A-B-D      d. C-B-A-D
8. Ano ang pambungad na paksang pangungusap ang angkop para sa talatang nabuo?      0 0 0 0  
a. b. c. d.  
a. May tatlong pangkat ng tao ang dumating rito sa Pilipinas noong unang panahon.  
b. Tatatlong tao lamang ang pangkat ng mga sinaunang Pilipino.  
c. Tatlong pangkat ang mga Pilipino ngayon.  
d. May tatlong sinaunang Pilipino.
9. Ano ang angkop na pamagat para sa talata?      0 0 0 0  
a. b. c. d.  
a. Ita, Indones at Malay  
b. Mga Pangkat ng Tao mula sa Asya  
c. Sino Ako?  
d. Ang Mga Unang Pangkat ng mga Pilipino
10. Kung idaragdag bilang pangungusap E ang sumusunod na pangungusap: “*Ang mga Indones ay dumating nang dalawang bugso may limang libong taon na ang nakararaan*”; ano ang magiging panibagong pagkakasunud-sunod ng mga pangungusap upang makabuo ng makabuluhang talata?      0 0 0 0  
a. B-E-C-D      c. C-B-E-D-A  
b. C-A-B-E-D      d. C-B-E-A-D

## **Constitution**

**DIRECTIONS:** Shade the oval above the letter that corresponds to the answer that will make each statement correct.

### Example:



- |  |                            |         |
|--|----------------------------|---------|
| 1. What do you call the introductory part of the Constitution?   | 0 0 0 0                    |         |
| a. Preface   | c. Preamble                | a b c d |
| b. Amendments  | d. Bill of Rights          |         |
| 2. What form of government does the Philippines adopt?   | 0 0 0 0                    |         |
| a. Republican  | c. neither a nor b         | a b c d |
| b. Democratic  | d. both a and b            |         |
| 3. What is the power of the State to take private property for public use upon payment of a just compensation? | 0 0 0 0                    |         |
| a. right of confiscation   | c. right of sequestration  | a b c d |
| b. right of limiting resources   | d. right of eminent domain |         |
| 4. Who among the following may issue a warrant of arrest or a search warrant?                                  | 0 0 0 0                    |         |
| a. a senator   | c. a congressman           | a b c d |
| b. a judge   | d. the President           |         |
| 5. A foreigner may acquire Filipino citizenship through  | 0 0 0 0                    |         |
| a. naturalization  | c. rebirth                 | a b c d |
| b. extradition   | d. Visa application        |         |
| 6. The right to vote is also known as _____.   | 0 0 0 0                    |         |
| a. suffrage  | c. democracy               | a b c d |
| b. naturalization  | d. plebiscite              |         |



## **Constitution**

13. Which of the following shows the transfer of power should the President be incapable of discharging his duties? 0 0 0  
a b c d

  - President → Vice-President → Senate President → House Speaker
  - President → Vice-President → Chief Justice → Senate President
  - President → Vice-President → Chief Justice → House Speaker
  - President → Vice-President → House Speaker → Senate President

14. A member of the Supreme Court 0 0 0  
a b c d

  - must have been for fifteen years or more, a judge of a lower court.
  - must have been for ten years, a judge of the Court of Appeals.
  - may not be a member of the Philippine Bar.
  - may be a naturalized citizen.

15. The Supreme Court is composed of 0 0 0  
a b c d

  - a Chief Justice and fourteen Associate Justices.
  - two Chief Justices and fourteen Associate Justices.
  - a Chief Justice and twelve Associate Justices.
  - a Chief Justice and an indefinite number of Associate Justices.

16. Which of the following is a Constitutional Commission? 0 0 0  
a b c d

  - Commission of Human Rights
  - Philippine Commission on Good Government
  - Civil Service Commission
  - Commission on Natural Resources

17. What branch of government has the sole right to initiate all cases of impeachment? 0 0 0  
a b c d

  - Senate
  - Commission of Election
  - House of Representative
  - Judiciary

18. Which of the following is not removable from office by impeachment? 0 0 0  
a b c d

  - Member of the Supreme Court
  - Member of the Constitutional Commissions
  - The Ombudsman
  - Senators



## **Constitution**

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25. Which of the following is classified as being a "Head of the Family" for income tax purposes?      0 0 0 0  
a b c d
- a. a married individual with dependents
  - b. an unmarried individual with dependents
  - c. a married individual without dependents
  - d. an unmarried individual without dependents
26. What Act implements the mandate for the "State to make essential goods, health and other social services available to all the people at affordable cost?"      0 0 0 0  
a b c d
- a. Land Reform Program
  - b. Generics Act
  - c. Resettlement Act
  - d. Freedom Act
27. Which of the following is true about elective local officials?      0 0 0 0  
a b c d
- a. The term of office is three years.
  - b. Barangay officials' term of office is indefinite.
  - c. An official may be reelected indefinitely.
  - d. An official may not serve for less than three terms.
28. What may be classified as alienable lands of the public domain?      0 0 0 0  
a b c d
- a. forest
  - b. mineral lands
  - c. national park
  - d. agricultural lands
29. What is the maximum equity for aliens in a corporation or association in the exploration development and utilization of natural resources?      0 0 0 0  
a b c d
- a. 60 %
  - b. 40 %
  - c. 50 %
  - d. 30 %
30. What is recognized by the State as the foundation of the nation?      0 0 0 0  
a b c d
- a. barangay
  - b. community
  - c. family
  - d. municipality

## Inductive Reasoning

**DIRECTIONS:** Discover the principle involved in each of the following series. Shade the oval above the letter that corresponds to the best answer.

- |                         |  |                         |  |
|-------------------------|--|-------------------------|--|
| 1. 3 6 9 12 15          | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 9. ZY WV TS QP          | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) 2                    | c) 22  | a) NM                   | c) LK  |
| b) 18                   | d) 20  | b) ML                   | d) KJ  |
| 2. C E G I K            | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 10. DC HG LK PO         | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) L                    | c) N   | a) OP                   | c) SR  |
| b) M                    | d) O   | b) RQ                   | d) TS  |
| 3. I K M O Q            | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 11. 1 2 5 6 11 12 19 20 | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) R                    | c) S   | a) 25                   | c) 29  |
| b) T                    | d) P   | b) 27                   | d) 31  |
| 4. B D F H J            | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 12. 4 9 5 11 6 13 7 15  | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) L                    | c) N   | a) 19                   | c) 8   |
| b) M                    | d) P   | b) 9                    | d) 17  |
| 5. 10 17 26 37          | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 13. 6 12 36 72 216      | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) 48                   | c) 50  | a) 250                  | c) 400   |
| b) 49                   | d) 51  | b) 300                  | d) 432   |
| 6. 37 50 65 82          | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 14. A C C F F F         | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) 98                   | c) 100   | a) J                    | c) K   |
| b) 99                   | d) 101   | b) G                    | d) V   |
| 7. 3 9 5 25 8 64 12 144 | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 15. 1 2 6 12 36         | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) 15                   | c) 20  | a) 50                   | c) 70  |
| b) 17                   | d) 16  | b) 52                   | d) 72  |
| 8. AB EF IJ MN          | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ | 16. H H L L P P T T     | $\begin{array}{cccc} 0 & 0 & 0 & 0 \\ \text{a} & \text{b} & \text{c} & \text{d} \end{array}$ |
| a) OP                   | c) QR  | a) V                    | c) Y   |
| b) PQ                   | d) RS  | b) X                    | d) Z   |

### **Inductive Reasoning**

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17. E F H G I J      0 0 0 0  
      a b c d  
a) LK      c) KM  
b) JL      d) MN
26. MZ KX IV GT      0 0 0 0  
a b c d  
a) ER      c) DQ  
b) FS      d) CP
18. 6 12 7 11 8 10      0 0 0 0  
a b c d  
a) 13      c) 10  
b) 7      d) 9
27. LO KP JQ IR HS      0 0 0 0  
a b c d  
a) GT      c) EV  
b) FU      d) DW
19. A C F J O      0 0 0 0  
a b c d  
a) T      c) S  
b) U      d) R
28. G F I H K      0 0 0 0  
a b c d  
a) J      c) L  
b) M      d) O
20. B DE GHI      0 0 0 0  
a b c d  
a) MNDP c) JKLM  
b) LMNO d) KLMN
29. AZ BY CX DW EV      0 0 0 0  
a b c d  
a) GT      c) HS  
b) FU      d) IR
21. A B C D E F      0 0 0 0  
a b c d  
a) J      c) H  
b) I      d) G
30. 396 384 370 354 336      0 0 0 0  
a b c d  
a) 318      c) 316  
b) 314      d) 314
22. N O P Q R S      0 0 0 0  
a b c d  
a) W      c) U  
b) V      d) T
31. 15 17 18 21 22      0 0 0 0  
a b c d  
a) 23      c) 24  
b) 25      d) 26
23. 3 8 48 55 440      0 0 0 0  
a b c d  
a) 448      c) 450  
b) 449      d) 451
32. 7 21 14 42 42      0 0 0 0  
a b c d  
a) 84      c) 124  
b) 96      d) 126
24. 16 12 17 11 18      0 0 0 0  
a b c d  
a) 7      c) 10  
b) 9      d) 12
33. 314 321 322 330 332      0 0 0 0  
a b c d  
a) 340      c) 342  
b) 341      d) 343
25. 29 58 29 145 29      0 0 0 0  
a b c d  
a) 231      c) 233  
b) 232      d) 234
34. F21 H19 K16 O12 T7      0 0 0 0  
a b c d  
a) A26      c) X3  
b) Z1      d) B25

35. I18 K16 M14 O12	a) P10 b) Q11	c) Q10 d) P11	0 0 0 0 a b c d
36. BO DQ FS HU JW	a) KX b) IV	c) LY d) MZ	0 0 0 0 a b c d
37. BC PQ EF ST	a) UJ b) KL	c) VW d) HI	0 0 0 0 a b c d
38. E4 G6 I8 K10 M12	a) O14 b) Q16	c) N14 d) L16	0 0 0 0 a b c d
39. DQ4 GT7 CP3 HU8 BO2	a) IV9 b) KX11	c) JW10 d) MZ13	0 0 0 0 a b c d
40. AN1 CP3 ER5 GT7 IV9 KX11	a) LY12 b) MZ13	c) JW10 d) HU8	0 0 0 0 a b c d
41. A1 C3 E5	a) F6 b) G7	c) J11 d) K19	0 0 0 0 a b c d
42. A26 C24 EF21	a) P12 b) H14	c) J17 d) L19	0 0 0 0 a b c d
43. J10 L12 N14	a) O15 b) P16	c) G14 d) U34	0 0 0 0 a b c d

### Inductive Reasoning

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44. 8R    6T    4V

0 0 0 0  
a b c d

- a) 17j                      c) 24w  
b) 15e                      d) 2x

45. J1017    L1215    N1413

0 0 0 0  
a b c d

- a) R125                      c) T416  
b) P1611                      d) Q678

46. AC    FH    KM

0 0 0 0  
a b c d

- a) AB                              c) PR  
b) EF                              d) VW

47. 1516    1819    2122

0 0 0 0  
a b c d

- a) 1716                              c) 2324  
b) 1115                              d) 2425

48. 1121    2242    3483

0 0 0 0  
a b c d

- a) 4964                              c) 4844  
b) 6766                              d) 4994

49. aa33bb    cc77dd    ee1111ff

0 0 0 0  
a b c d

- a) gg1516hh                              c) gg1717hh  
b) gg1515hh                              d) gg1816hh

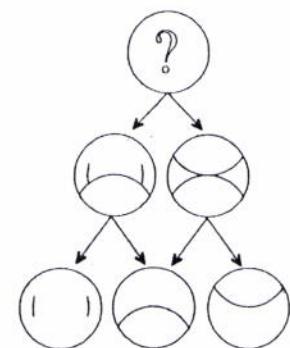
50. b9b9    c7c7    d5d5

0 0 0 0  
a b c d

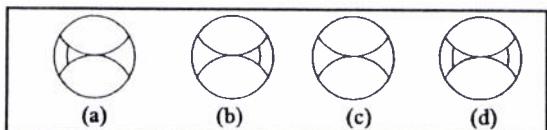
- a) e3e2                                      c) e2e2  
b) e4e4                                      d) e3e3

## Abstract Reasoning

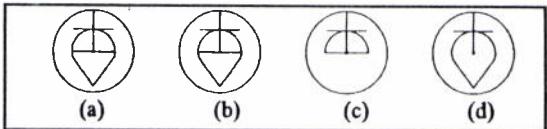
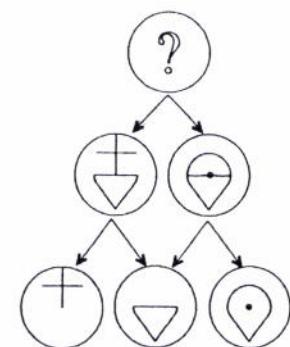
**DIRECTIONS:** Select the best answer for each of the following and shade the oval above the letter that corresponds to your answer.



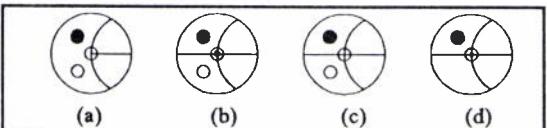
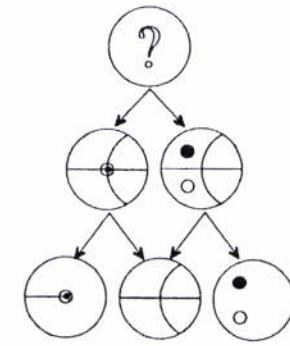
Which of the circles marked **a**, **b**, **c**, **d** fits logically into the blank top circle in the diagram below? There is a logical sequence to how the diagram is built up, starting at the bottom row.



1. 0 0 0 0  
a b c d

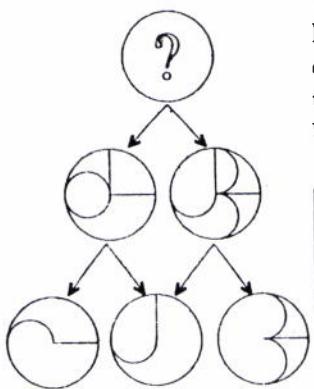


2. 0 0 0 0  
a b c d

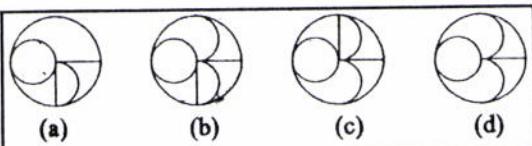


3. 0 0 0 0  
a b c d

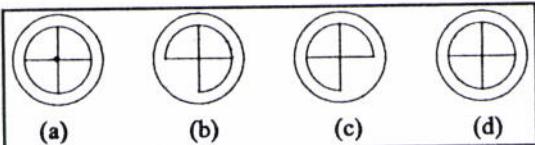
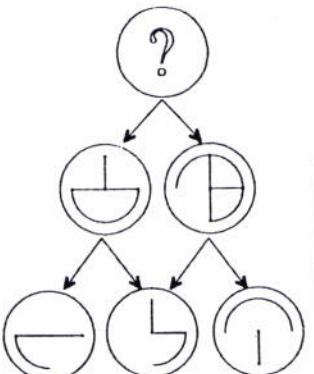
### Abstract Reasoning



Which of the circles marked **a**, **b**, **c**, **d** fits logically into the blank top circle in the diagram below? There is a logical sequence to how the diagram is built up, starting at the bottom row.

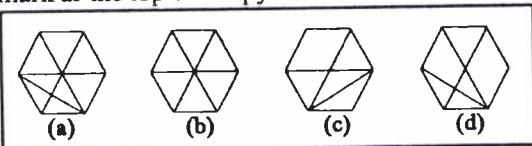
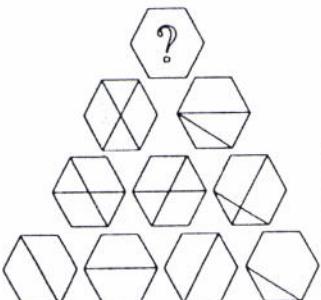


4. 0 0 0 0  
a b c d

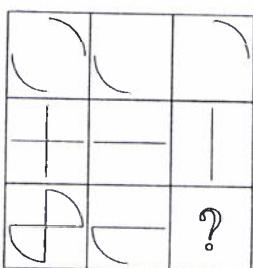


5. 0 0 0 0  
a b c d

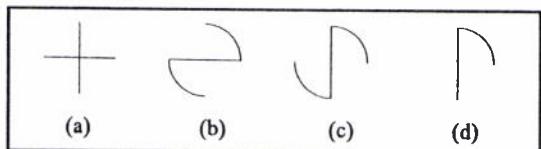
Study the pyramid on the left and in particular, the lines which appear in each hexagon. Moving up the pyramid from the bottom row, these lines appear in each hexagon according to a set rule, depending on the lines which appear in the two hexagons directly below it. Which of **a**, **b**, **c**, **d**, below, should replace the hexagon with the question mark at the top of the pyramid?



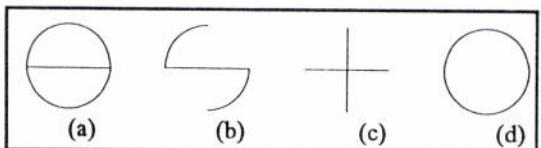
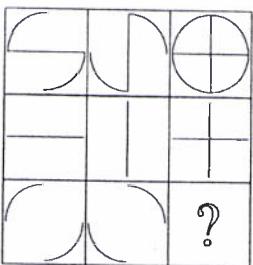
6. 0 0 0 0  
a b c d



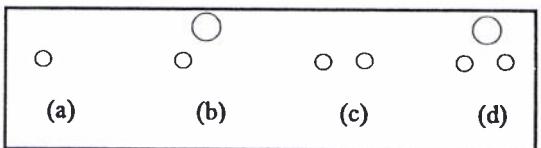
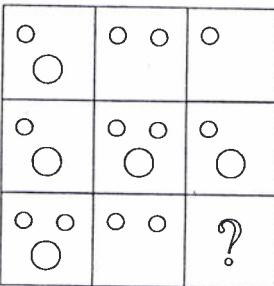
Which of the squares, a to d, will fit in at the square with the question mark?



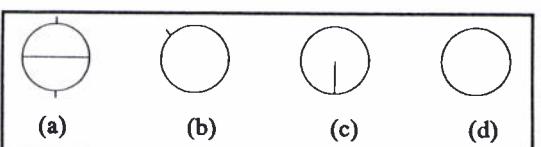
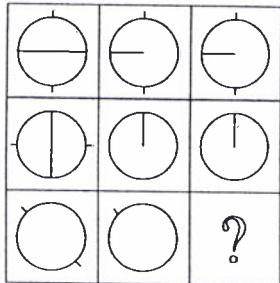
7. 0 0 0 0  
a b c d



8. 0 0 0 0  
a b c d



9. 0 0 0 0  
a b c d



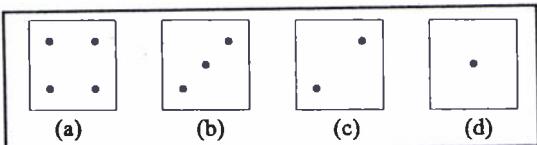
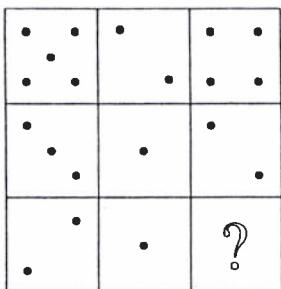
10. 0 0 0 0  
a b c d

---

**Abstract Reasoning**

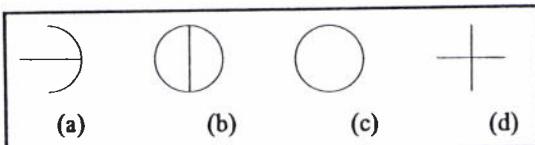
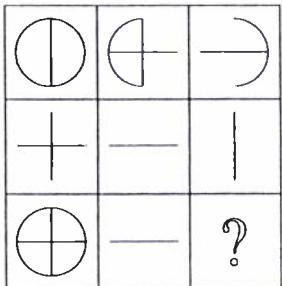
---

Which of the squares, a to d will fit in at the square with a question mark?



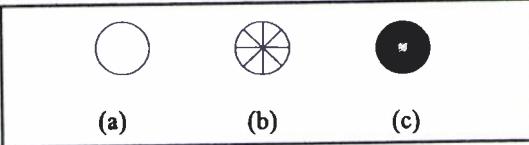
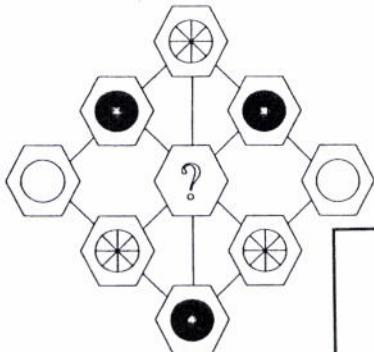
11. 0 0 0 0  
a b c d

---



12. 0 0 0 0  
a b c d

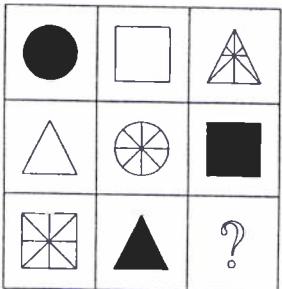
---



13. 0 0 0 0  
a b c d

---

**Abstract Reasoning**



Look across each row and down each column  
then try to find the correct right-hand bottom  
tile from the choices below



(a)



(b)

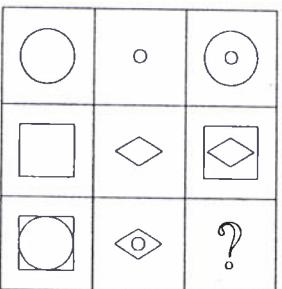


(c)



(d)

14. 0 0 0 0  
a b c d



(a)



(b)

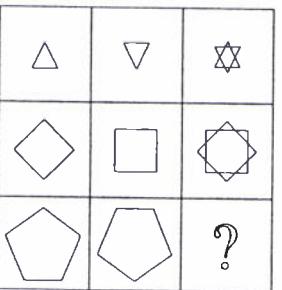


(c)



(d)

15. 0 0 0 0  
a b c d



(a)



(b)

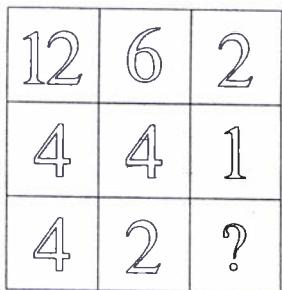


(c)



(d)

16. 0 0 0 0  
a b c d



(a)



(b)

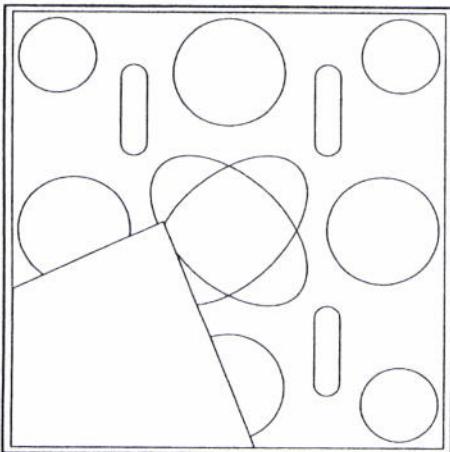


(c)



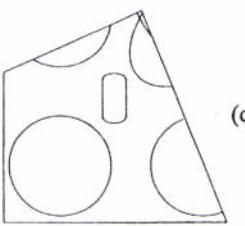
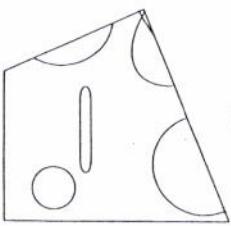
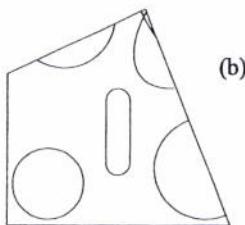
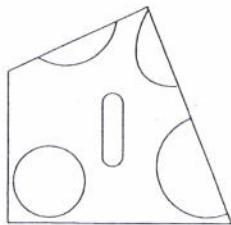
(d)

17. 0 0 0 0  
a b c d



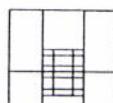
Select the missing piece from  
**a**, **b**, **c**, or **d**, so that the  
whole square will contain an  
even, symmetrical pattern.

18. 0 0 0 0  
a b c d



**Abstract Reasoning**

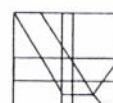
Select the figure from the choices at the right which contains the figure on the left.



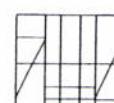
(a)



(b)



(c)



(d)

19. 0 0 0 0  
a b c d



(a)



(b)



(c)



(d)

20. 0 0 0 0  
a b c d



(a)



(b)

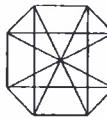


(c)

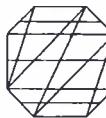


(d)

21. 0 0 0 0  
a b c d



(a)



(b)

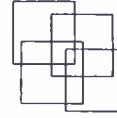


(c)

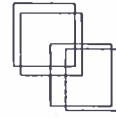


(d)

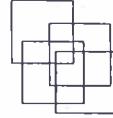
22. 0 0 0 0  
a b c d



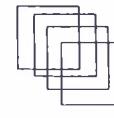
(a)



(b)

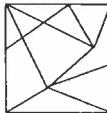


(c)

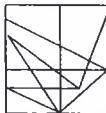


(d)

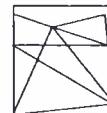
23. 0 0 0 0  
a b c d



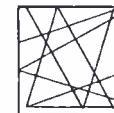
(a)



(b)



(c)

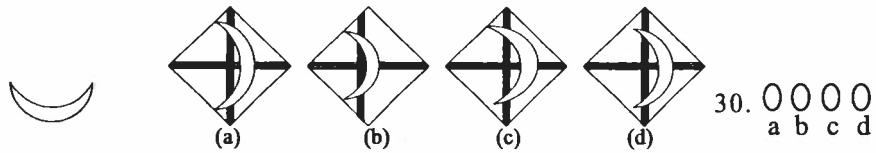
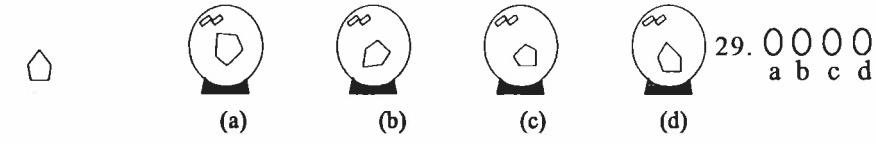
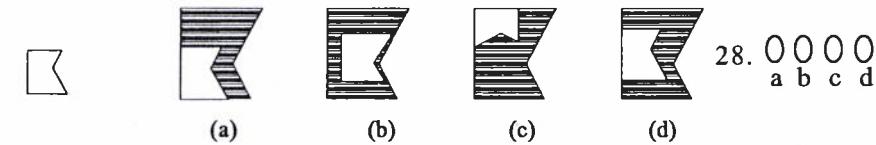
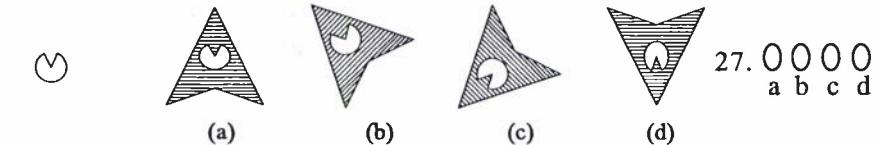
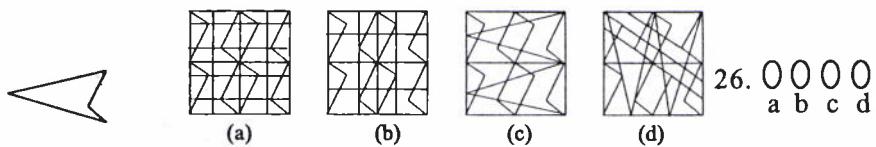
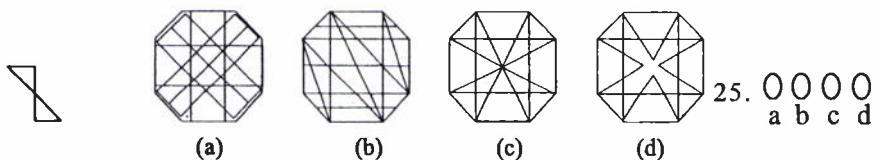


(d)

24. 0 0 0 0  
a b c d

**Abstract Reasoning**

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**Answer Keys,  
Solutions**

**and**

**Explanations**

# Mathematics Solutions

1. Find the sum:  $299 + 943 + 398 + 101$ .

$$\begin{array}{r}
 299 \\
 943 \\
 + 398 \\
 \hline
 101 \\
 \hline
 1741
 \end{array}$$

- a) 1 531      b) 1 641      c) 1 741      d) 122 222

2. If  $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$ , then  
 $11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 = ?$

$$10(10) + 55 = 100 + 55 = 155$$

- a) 65      b) 155      c) 125      d) 550

3. If  $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 = 55$ , then  
 $101 + 102 + 103 + 104 + 105 + 106 + 107 + 108 + 109 + 110 = ?$   
 $10(100) + 55 = 1000 + 55 = 1055$

- a) 1 055      b) 1 065      c) 1 075      d) 5 500

4. Evaluate:  $\{ 16 - (24 - 8) + 22 \times 8 - 8 \}$

$$\begin{aligned}
 &= \{ 16 - (16) + 176 - 8 \} \\
 &= \{ 0 + 168 \} = 168
 \end{aligned}$$

- a) 40      b) 48      c) 64      d) 168

5. If  $23 + 38 + 37 + x + 53 = 168$  and  
 $23 + 28 + 40 + y + 50 = 120$ .  
Find the value of  $x - y$ ?

$$\begin{aligned}
 23 + 28 + 37 + x + 53 &= 168 \quad 151 + x = 168 \\
 23 + 28 + 40 + y + 50 &= 120. \quad - \underline{151 + y = 120} \\
 &\quad x - y = 48
 \end{aligned}$$

- a) 36      b) 48      c) 56      d) 64

6. Find the product:  $800 \times 125$ .

$$\text{since } 125 = \frac{1}{8} \times 1000 \quad \text{then} \quad 800 \times \frac{1}{8} \times 1000 \\ = 100 \times 1000 \\ = 100\,000$$

a) 925      b) 1000      c) 10 000      d) 100 000

7. Find the quotient:  $8000 \div 125$ .

$$= 8000 \div (125) \\ = 8000 \div \left( \frac{1000}{8} \right) \\ = 8000 \times \left( \frac{8}{1000} \right) \\ = 64$$

a) 48      b) 64      c) 80      d) 88

8. What is the remainder when 192 888 is divided by 8?

Since the last three digits of 192 888 is divisible by 8 there is no remainder or the remainder is 0

- a) 0      b) 4      c) 8      d) 24 111
9. Rounding 299 943 to the nearest thousand the result is

To round off numbers to the nearest thousands we drop off the last three digits and replace it by three zeroes. Retain the fourth digit if the number dropped off is less than 500. Add 1 to the fourth digit if the digit dropped off is 500 or more. Therefore  $299\,943 \approx 300\,000$

- a) 299 940      b) 299 000      c) 299 900      d) 300 000

10. 398.101 is read as

hundreds place  
 tens place  
 ones  
 and  
 tenths place  
 hundredths place  
 thousandths place  
 3 9 8 . 1 0 1

- a) Three hundred ninety eight, one hundred one.
- b) Three hundred ninety eight and one hundred one.
- c) Three hundred ninety eight and one hundred one hundredths
- d) Three hundred ninety eight and one hundred one thousandths.**

11. A number is divisible by 8 if its last three digits is divisible by 8. Which of the following numbers is divisible by 8?

- a)  $208 \div 8 = 26$  r 0 therefore 9208 is divisible by 8.
- a) 9 208**      b) 6 236      c) 88 254      d) 8 886

12. Which of the following statements is *true*?

- a) If a number is divisible by 5, then it is divisible by 10.  
25 is divisible by 5 but not by 10.
- b) If a number is divisible by 10, then it is divisible by 5.  
80 is divisible by 10 and also by 5.
- c) If a number is divisible by 3, then it is divisible by 6.  
9 is divisible by 3, but not by 6.
- d) If a number is divisible by 4, then it is divisible by 8.  
12 is divisible by 4 but not by 8.

13. Simplify:  $\frac{1}{2}(128 - 84) + (128 - 84) - \frac{1}{2}(128 - 84)$

$$(128 - 84) \left( \frac{1}{2} + 1 - \frac{1}{2} \right) = (44)(1) = 44$$

- a) 0
- b) 20
- c) 44**
- d) 64

14. Simplify:

$$33\frac{1}{3}\% \text{ of } 48 + 12\frac{1}{2}\% \text{ of } 96 - 44\frac{4}{9}\% \text{ of } 27$$

since

$$\begin{aligned}33\frac{1}{3}\% &= \frac{1}{3}; & 12\frac{1}{2}\% &= \frac{1}{8}; & 44\frac{4}{9}\% &= \frac{4}{9} \\33\frac{1}{3}\% \text{ of } 48 + 12\frac{1}{2}\% \text{ of } 96 - 44\frac{4}{9}\% \text{ of } 27 \\&= \frac{1}{3} \times 48 + \frac{1}{8} \times 96 - \frac{4}{9} \times 27 \\&= 16 + 12 - 12 \\&= 16\end{aligned}$$

- a) 12      b) 16      c) 24      d) 48

15. Reduce  $\frac{231}{1001}$  to its lowest terms.

A fraction is in its lowest terms if its numerator and denominator are relatively prime, i.e., their greatest common factor is 1. To reduce a fraction in its lowest terms divide both numerator and the denominator by their greatest common factor.

$$\frac{231}{1001} = \frac{231 \div 77}{1001 \div 77} = \frac{3}{13}$$

- a)  $\frac{7}{11}$       b)  $\frac{3}{31}$       c)  $\frac{3}{13}$       d)  $\frac{7}{13}$

16. Which of the following is *true*?

- a)  $-16 > 8$       c)  $54 - 8 \geq 8 - 54$

*negative numbers are always  
less than the positive numbers.*

$$46 \geq -46$$

- b)  $\frac{8}{64} = \frac{1}{8} \neq \frac{1}{4}$       d)  $\frac{9}{117} = \frac{1}{13} \neq \frac{1}{17}$

17. Find the value of  $x$ :

$$\begin{aligned}x &= \left[ \frac{3}{8}(72) + \frac{5}{7}(35) \right] \\&= 3(9) + 5(5) \\&= 27 + 25 \\x &= 52\end{aligned}$$

- a) 27      b) 36      c) 45      d) 52

18. What is 25% of 228?

$$\text{since } 25\% = \frac{1}{4} \quad \text{then } 25\% \times 228 = \frac{1}{4} \times 228 = 57$$

- a) 52      b) 57      c) 54      d) 912

19. 228 is 25% of what number?

$$228 = 25\% \times N$$

$$228 = \frac{1}{4} \times N$$

$$228 \times 4 = 912 = N$$

- a) 52      b) 57      c) 54      d) 912

20. 168 is what percent of 672?

$$\left(3 + \frac{1}{4}\right) \times 16 = 3(16) + \frac{1}{4}(16) = 48 + 4 = 52$$

- a) 25%      b) 50%      c) 400%      d) 80%

21. Evaluate:  $123 \times 0.1 + 123 \times 0.01 + 123 \times 0.001$ .

$$12.3 + 1.23 + 0.123 = 13.653$$

- a) 13.653      b) 135.53      c) 1 356.3      d) 13 563

22. Find  $3\frac{1}{4}$  of 16.

$$\left(3 + \frac{1}{4}\right) \times 16 = 3(16) + \frac{1}{4}(16) = 48 + 4 = 52$$

a) 7

b) 16

c) 39

d) 52

23. Evaluate:  $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} = ?$

$$1 + \frac{4}{8} + \frac{2}{8} + \frac{1}{8} = 1\frac{7}{8}$$

a)  $1\frac{3}{16}$

b)  $1\frac{3}{8}$

c)  $1\frac{5}{8}$

d)  $1\frac{7}{8}$

24. Find the value of x in the equation  $3x + 7 = 28$ .

$$3x = 28 - 7 \quad 3x = 21 \quad x = 21 \div 3 \quad x = 7$$

a) {7}

b) {-7}

c) {±7}

d) {4}

25. Which of the following has the greatest value?

a)  $\frac{8}{(6^2)(8^2)} = \frac{(8)}{(6^2)(8^2)} = 8 \left( \frac{1}{(6^2)(8^2)} \right)$

b)  $\frac{16}{(6^2)(8^3)} = \frac{2(8)}{(6^2)(8^2)(8)} = 2 \left( \frac{1}{(6^2)(8^2)} \right)$

c)  $\frac{1}{(6^3)(8^2)} = \frac{1}{6} \left( \frac{1}{(6^2)(8^2)} \right)$

d)  $\frac{168}{(6^4)(8^3)} = \frac{(3)(7)(8)}{(6^2)(6^2)(8^2)8} = \frac{7}{12} \left( \frac{1}{(6^2)(8^2)} \right)$

26. Which of the following *cannot* yield an odd integer when divided by 10?

- a) The sum of two odd integers.

$$11 + 79 = 90 \quad 90 \div 10 = 9 \quad 9 \text{ is an odd integer}$$

- b) The product of a prime number and an odd integer.

$$2 \times 15 = 30 \quad 30 \div 10 = 3 \quad 3 \text{ is an odd integer}$$

- c) The product of two odd integers.

*The product of two odd integers is always odd,  
therefore it is not divisible by 10.*

- d) The sum of three consecutive integers.

$$9 + 10 + 11 = 30 \quad 30 \div 10 = 3 \quad 3 \text{ is an odd integer}$$

27. If  $8x + 12 = 24$ , what is the value of  $24x + 36$ ?

$$24x + 36 = 3(8x + 12) = 3(24) = 72$$

- a) 4      b) 6      c) 8      d) 72

28. If a positive integer  $m$  is divisible by both 3 and 8, then  $m$  must also be divisible by the product of 3 and 8.

- a) 10      b) 18      c) 24      d) 60

29. If positive integers  $m$  and  $n$  are not both odd, which of the following is *always* true?

- |                     |                           |
|---------------------|---------------------------|
| a) $m + n$ is even. | c) $m - n$ cannot be odd. |
| b) $mn$ is even.    | d) $m + n - 1$ is odd     |

30. Find the average temperature change for the 12-day period. Temperature change in degree celsius: 2.6, 3.8, 7.0, 4.5, 4.6, 7.9, 5.0, 8.1, 4.4, 5.3, 6.4, 5.2.

$$\text{ave} = (2.6 + 3.8 + 7.0 + 4.5 + 4.6 + 7.9 + 5.0 + 8.1 + 4.4 + 5.3 + 6.4 + 5.2) \div 12 = 5.4$$

- a) 4.8      b) 4.9      c) 5.2      d) 5.4

31. Find the set of all odd numbers  $x$  satisfying the conditions

$$\begin{aligned}5x - 4 &\leq 0 \text{ and } 3x - 7 \geq 0. & \text{There is no odd integer} \\5x - 4 &\leq 0 \text{ and } 3x - 7 \geq 0. & \text{less than } 4/5 \text{ and at the} \\5x &\leq 4 \quad \text{and} \quad 3x \geq 7. & \text{same time greater than} \\x &\leq \frac{4}{5} \quad \text{and} \quad x \geq \frac{7}{3}. & 7/3. \text{ Therefore the} \\&& \text{solution set to this} \\&& \text{problem is empty.}\end{aligned}$$

- a)  $\{x \mid x \neq 1\}$     b)  $\{1\}$     c)  $\{x \mid x \in \mathfrak{N}\}$     d)  $\{\}$

32. State the property illustrated.

If  $8(6) + 4 = 48 + 4$  and  $48 + 4 = 52$   
then  $8(6) + 4 = 52$

- a) distributive property of multiplication over addition  
b) commutative property of addition  
c) associative property  
**d) transitive property of equality**

33. If 8 less than the product of a number and  $-3$  is greater than 7, which of the following could be that number?

$$-3x - 8 > 7 \Rightarrow -3x > 7 + 8 \Rightarrow -3x > 15$$

$$\Rightarrow x < -\frac{15}{3} \Rightarrow x < -5$$

- a) -6    b) -5    c) 5    d) 6

34. The difference between 8 times a number and 17 is 231. Find the number.

$$8x - 17 = 231 \Rightarrow 8x = 231 + 17$$

$$\Rightarrow 8x = 248 \Rightarrow x = 248 \div 8 = 31$$

- a) 31    b) 37    c) 48    d) 1984

35. Four times the perimeter of a parking lot is 16 less than 2 000 meters. What is the perimeter of the lot?

$$4P = 2000 - 16 \Rightarrow 4P = 1984$$

$$P = 1984 \div 4 \Rightarrow P = 496$$

- a) 496 m      b) 504 m      c) 992 m      d) 1 008 m

36. The amount of last month's telephone bill, decreased by the product of 3 and P 30.00 equals P 1319.50. Find the amount of the bill.

$$B - 3(P30) = P1319.50 \Rightarrow B = P1319.50 + 3(P30)$$

$$\Rightarrow B = P1319.50 + P90 \Rightarrow B = P1409.50$$

- a) P1 229.50    b) P1 289.50    c) P 1 310.50    d) P 1 409.50

37. Eighteen less than seven times the number of sandwiches is 269. How many sandwiches are there?

$$7S - 18 = 269 \Rightarrow 7S = 269 + 18 \Rightarrow$$

$$\Rightarrow 7S = 287 \Rightarrow S = 287 \div 7 \Rightarrow S = 41$$

- a) 32      b) 41      c) 44      d) 45

- 38 A house and lot are sold for P 14 M. The house costs 1.5 times as much as the lot. How much does the lot costs?

$$H = 1.5 L$$

$$H + L = P 14 M \Rightarrow 1.5 L + 1L = P 14 M$$

$$\Rightarrow 2.5 L = P 14 M \Rightarrow L = P 14 M \div 2.5$$

$$L = P 5.6 M$$

- a) P5.6M      b) P8.4M      c) P 10.5M      d) P 21M

39. The sale price of a television set is P 7 200. The discount rate is 40%. Find its regular price.

$$RP - .40 RP = SP \Rightarrow 0.60 RP = P 7 200$$

$$RP = P 7 200 \div 0.60 = P 12 000$$

- a) P 4 320    b) P 12 000    c) P 6 800    d) P 10 000

40. The lengths of the sides of a triangle can be represented by three consecutive integers. The perimeter of the triangle is 96 cm. Find the length of the longest side of the triangle in cm.

Let  $x + 2$  = longest side

$$\begin{aligned}x + (x + 1) + (x + 2) &= 96 \Rightarrow 3x + 3 = 96 \\ \Rightarrow 3x = 96 - 3 &\Rightarrow 3x = 93 \Rightarrow x = 93 \div 3 = 31\end{aligned}$$

The longest side is  $31 + 2 = 33$  cm

- a) 27      b) 31      c) 33      d) 36

41. The length of a rectangle is 8 meters more than twice its width. The perimeter is 112 meters. Find its area.

$$\begin{aligned}2L + 2W = P &\Rightarrow 2(2W + 8) + 2W = 112 \Rightarrow \\ 4W + 16 + 2W &= 112 \Rightarrow 6W + 16 = 112 \Rightarrow \\ 6W = 112 - 16 &\Rightarrow 96 \div 6 \Rightarrow W = 16 \\ L = 2(16) + 8 &= 40 \\ A = LW &= (16)(40) = 640 \text{ m}^2\end{aligned}$$

- a) 16m      b) 24 m      c)  $40 \text{ m}^2$       d)  $640 \text{ m}^2$

42. Paula is twice as old as Queenie. Seven years ago the sum of their ages was 16. How old is Queenie now?

$$\begin{aligned}P &= 2Q \\ (P - 7) + (Q - 7) &= 16 \quad (2Q - 7) + (Q - 7) = 16 \\ 3Q - 14 &= 16 \quad 3Q = 16 + 14 \quad 3Q = 30 \quad Q = 10\end{aligned}$$

- a) 8      b) 10      c) 16      d) 20

43. For what value of  $x$  will  $x$  be the average of 2, 4x, 6, 8, 10 ?

$$\text{ave} = x = \frac{2 + 4x + 6 + 8 + 10}{5}$$

$$\begin{aligned}5x &= 4x + 26 \\ 5x - 4x &= 26 \quad \Rightarrow x = 26\end{aligned}$$

- a) 4      b) 12      c) 26      d) 39

44. How many integers between 197 and 303 are divisible by 4 or 10 ?

200	204	208	212	216	220	224	228	232	236
240	244	248	252	256	260	264	268	272	276
280	284	288	292	296	300				

- a) 25      b) 26      c) 31      d) 37

45. A patient must take his medication every 7 hours starting at 7:00 a.m., Sunday. On what day will the patient first receive his medication at 8 a.m.?

Sun 2:00 pm   Sun 9:00 pm   Mon 4:00 am  
 Mon 11:00 nn   Mon 6:00 pm   Tues. 1:00 am  
**Tues 8:00 am**

- a) Sunday      b) Wednesday      c) Thursday      d) **Tuesday**

46. Of the 300 grocery shoppers surveyed, 96 did not have a regular day of the week on which they shop. What percentage of the shoppers did not have a regular day of shopping?

$$R = \frac{96}{300} \times 100\% = 32\%$$

- a) 32%      b) 48%      c) 64%      d) 96%

47. A water container has 100 ml of water in it and is 20% full. How many ml of water can this container hold if it is full?

$$20\% F = 100 \Rightarrow \frac{1}{5} F = 100 \Rightarrow F = 100 \times 5 = 500 \text{ ml}$$

- a) 200 ml      b) 400 ml      c) 500 ml      d) 800 ml

48. How many containers each occupying an area of  $2 \frac{1}{8}$  square meters can be stored in a 952- square meter warehouse?

$$N = 952 \div 2 \frac{1}{8} = 448 \text{ containers}$$

- a) 358      b) 448      c) 530      d) 630

49. The starting salary of a secretary at ABC Computer Specialists is P15,000 a month. Next year the starting salary will be raised to P18,000. What is the rate of increase in the starting salary?

$$\begin{aligned}\text{Rate of increase} &= \frac{\text{increase}}{\text{original pay}} \times 100\% \\ &= \frac{P18\,000 - P15\,000}{P15\,000} \times 100\% \\ &= \frac{P3\,000}{P15\,000} \times 100\% \\ &= \frac{1}{5} \times 100\% \\ &= 20\%\end{aligned}$$

- a) 3%      b) 20%      c) 25%      d) 30%

50. The cost of a square meter commercial lot in a certain municipality five years ago was P12 500. There was a 420% increase in the price in the last five years. What is the price per square meter of that lot today?

$$\begin{aligned}\text{Present Price} &= P12\,500 + 420\% (\text{P}12\,500) \\ &= P12\,500 + 4.20 (\text{P}12\,500) \\ &= P12\,500 + P52\,500\end{aligned}$$

**Present Price = P65 000**

- a) P 17 500      b) P 52 500      c) P 19 000      d) **P 65 000**

51. Last month a store manager decided to decrease the prices of all items by 10%. This month he increased the prices by 10%. What would be the price for a pair of pants that had cost P750 before prices were decreased last month?

$$\begin{aligned}\text{New Price} &= P\,750 (1 - .10) (1 + .10) \\ &= P\,750 (.90) (1.10)\end{aligned}$$

**New Price = P 742.50**

- a) **P 742.50**      b) P 750.00      c) P675.00      d) P 825.00

52. When the original price of an item is increased by a certain rate, the increased price is P3 100. When the original price is decreased by the same rate, the decreased price is P1 900. What is the original price of this item?

$$O.P(1+r) = P3\ 100$$

$$O.P(1-r) = P1\ 900$$

$$O.P = \frac{P\ 3\ 100}{(1+r)} \qquad O.P = \frac{P\ 1\ 900}{(1-r)}$$

$$31(1-r) = 19(1+r)$$

$$31 - 31r = 19 + 19r$$

$$31 - 19 = 31r + 19r$$

$$12 = 50r$$

$$r = 12 / 50 = 0.24$$

$$O.P. = \frac{P\ 3\ 100}{(1+r)} = \frac{P\ 3\ 100}{(1+0.24)} = \frac{P\ 3\ 100}{1.24} = P\ 2\ 500$$

- a) P 1 200      b) P250      c) **P2 500**      d) P2 800

53. How much must one has to invest in corporate bonds paying 9.6% in order to earn an income of P 12 000 per annum?

$$I = Prt \Rightarrow 12\ 000 = P(0.096)(1)$$

$$P = \frac{12\ 000}{(0.096)(1)} = P125\ 000$$

- a) P 11 520      c) **P 125 000**  
 b) P 23 040      d) P 250 000

54. How much must be cut from the edge of a piece of glass  $16\frac{1}{8}$  cm wide, in order for it to fit into an opening  $14\frac{3}{4}$  cm wide?

$$\begin{aligned} L &= 16\frac{1}{8} - 14\frac{3}{4} = 16\frac{1}{8} - 14\frac{6}{8} \\ &= 15\frac{9}{8} - 14\frac{6}{8} = 1\frac{3}{8} \text{ cm} \end{aligned}$$

- a)  $2\frac{3}{8}$  cm   b)  $1\frac{7}{8}$  cm   c)  $1\frac{3}{8}$  cm   d)  $2\frac{5}{8}$  cm

55. A race car traveled for  $2\frac{1}{2}$  hours with an average speed of

$132\frac{5}{8}$  km per hour. Find the total distance it covered in km.

$$\begin{aligned} d &= r \times t = 132\frac{5}{8} \times 2\frac{1}{2} = 132\frac{5}{8} \times \frac{5}{2} \\ &= \left(132 \times \frac{5}{2}\right) + \left(\frac{5}{8} \times \frac{5}{2}\right) = (330) + \left(\frac{25}{16}\right) \\ &= (330) + \left(1\frac{9}{16}\right) = 331\frac{9}{16} \text{ km} \end{aligned}$$

- a)  $264\frac{5}{16}$    b)  $331\frac{9}{16}$    c)  $330\frac{5}{16}$    d)  $135\frac{1}{8}$

56. If the weight of a 241-kg freight car increases to  $3\frac{1}{8}$

times when fully loaded, what will be its weight with a full load?

$$\text{Full Load} = 241 \times 3\frac{1}{8} = \left(241 \times \frac{25}{8}\right) = \frac{6025}{8} = 753\frac{1}{8} \text{ kg}$$

a)  $750 \frac{3}{8} \text{ kg}$

c)  $720 \frac{5}{8} \text{ kg}$

b)  $824 \frac{3}{8} \text{ kg}$

d)  $753 \frac{1}{8} \text{ kg}$

57. How many liters will remain in a 1000-liter storage tank if 8.2% of the liquid has evaporated due to excessive heat?

$$L = 1000 \times (1 - 0.082) = 1000 \times 0.918 = 918 \text{ liters}$$

- a) 918      b) 991.8      c) 999.18      d) 998

58. Dante recently sold some stock for which he originally bought for P358. If it has increased in value by 116%, how much did Dante receive for the stock?

$$\text{Present value} = P358 \times (1 + 1.16) = P358 \times (2.16)$$

$$\text{Present value} = P 773.28$$

- a) P 678.28    b) P 772    c) P 773.28    d) P 778

59. Mr. Manny Vargas, a real estate broker sold a building for P 175M. How much did he receive if his commission is 5.5% of the sale price of the property?

$$\text{Commission} = \text{Rate} \times \text{Sale Price}$$

$$\text{Commission} = 0.055 \times P 175 M = P 9.625 M$$

- a) P 9.5M    b) P 9.7M    c) P 9.625 M    d) P 180.5M

60. If 560 out of 700 examinees passed in the recent Career Service exam for Sub-Professional level, what percent of the examinees passed?

$$\text{rate} = \frac{\text{percentage}}{\text{base}} \times 100\% = \frac{560}{700} \times 100\% = 80\%$$

- a) 65%    b) 72%    c) 80%    d) 140%

## Mathematics Solutions

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61. Mr. Cruz borrows P 750 000 from Asian Bank and is charged P 90 000 interest. What rate of interest did Asian Bank charge for the loan?

$$\text{rate} = \frac{\text{percentage}}{\text{base}} \times 100\%$$

$$\text{rate} = \frac{90000}{750000} \times 100\% = 12\%$$

- a) 8%      b) 9%      c) 10%      d) 12%

62. A store sells shirts for P1 078 each or 3 for P2 997. How much would one save by buying 3 shirts at a time instead of 3 shirts, one at a time?

$$\begin{aligned}\text{Savings} &= (3 \times \text{P } 1078) - \text{P } 2997 \\ &= \text{P } 3234 - \text{P } 2997 = \text{P } 237\end{aligned}$$

- a) P 237      b) P 921      c) P1 237      d) P1 921

63. A computer can be rented for P1 745 a week or P347.50 a day. You need the computer only for 6 days. At which rate( daily or weekly), would it be cheaper to rent and by how much cheaper?

$$\begin{aligned}\text{daily} &= 6 \times \text{P } 347.50 = \text{P } 2085 \\ \text{weekly} &= \frac{\text{P } 1745}{\text{P } 340}\end{aligned}$$

- a) weekly; P 340      c) daily; P340  
b) daily; P240      d) weekly; P240

64. A 1.25 - kg box of Brand A detergent sells for P87.50. A 1.5-kg box of Brand B detergent sells for P 103.20. What is the difference in the price per kg?

$$\text{Brand A} = \text{P } 87.50 \div 1.25 = \text{P } 70.00 \text{ per kg}$$

$$\begin{aligned}\text{Brand B} &= \text{P } 103.20 \div 1.50 = \underline{\text{P } 68.80 \text{ per kg}} \\ &\quad \text{P } 1.20 \text{ per kg}\end{aligned}$$

- a) P 1.20      b) P 1.50      c) P 1.80      d) P 2.00

65. A 30-cm long plastic pipe costs P 249. At this rate, what is the price of the pipe per meter?

$$\text{Price per meter} = \text{P } 249 \div 0.30\text{m} = \mathbf{P \ 830 \text{ per m}}$$

- a) P 830      b) P 840      c) P 747      d) P 749

66. A homeowner can rent a chain saw from a rental agency at P 2 700 a day. The brand new of the same saw can be bought for P 18 900. For how many days could the homeowner rent the saw before renting would cost more than buying?

$$\text{P } 2\,700 \times \text{Days} = \text{P } 18\,900 \Rightarrow \text{Days} = \text{P } 18\,900 \div \text{P } 2\,700 = 7$$

- a) 5      b) 6      c) 7      d) 8

67. Paula uses ten 100-watt bulbs in her house. She uses these bulbs at an average of 5 hours each day. How many KWH do these bulbs use each day?

$$\text{KWH} = 10 \times 100 \text{ watts} \times 5 \text{ hours} \times \frac{1 \text{ kilo - watt}}{1000 \text{ watts}} = 5$$

- a) 5      b) 10      c) 50      d) 5 000

68. An electric range uses 12 200 watts per hour and is run an average of 60 hours a year. How many kilo-watt-hours is this?

$$\text{KWH} = 12\,200 \text{ watts} \times 60 \text{ hr} \times \frac{1 \text{ kilo - watt}}{1000 \text{ watts}} = 732$$

- a) 73.2      b) 732      c) 7 320      d) 7.32

69. A video cassette movie, purchased for P440 was marked up 25% on the selling price. Later, as retail prices fell, this movie was marked down 20% on the current sale price. Find its new sale price.

$$\begin{aligned}\text{New Sale Price} &= \text{P } 440 \times (1 + 0.25) \times (1 - 0.20) \\ &= \text{P } 440 \times (1.25) \times (0.80) = \mathbf{\text{P } 440}\end{aligned}$$

- a) P 352      b) P 440      c) P 500      d) P550

## Mathematics Solutions

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70. MSA Products, Inc., bought these office supplies last week: 1 320 pens @ P 0.125; 1 480 packs of paper clips @ P0.625; 1 240 boxes of tape @ P 0.875; 1 720 boxes of cards @ P0.80. A 5% sales tax is added. What was the company's total bill?

$$\begin{aligned}\text{pens} &: 1\ 320 \times P\ 0.125 = 1\ 320 \times \frac{1}{8} \times P\ 1 = P\ 165 \\ \text{paper clips} &: 1\ 480 \times P\ 0.625 = 1\ 480 \times \frac{5}{8} \times P\ 1 = P\ 925 \\ \text{tapes} &: 1\ 240 \times P\ 0.875 = 1\ 240 \times \frac{7}{8} \times P\ 1 = P\ 1\ 085 \\ \text{cards} &: 1\ 720 \times P\ 0.80 = 1\ 720 \times \frac{4}{5} \times P\ 1 = P\ 1\ 376\end{aligned}$$

P 3 551

Purchased Price + Sales Tax = Gross Amount

Purchased Price + 5% ( purchased Price) =

P 3 551 + 0.05 (P 3 551) =

P 3 551 + P 177.55 =

P 3 728.55 = Gross Amount

- a) P 173.25    b) P 3 551    c) P 971.25    d) P 3 728.55

71. The question "How many flowers are needed to border a rectangular garden?", involves

- a) weight    b) perimeter    c) volume    d) area

72. How many meters of fencing are needed to enclose an 84-meter by 48-meter rectangular garden?

$$2L + 2W = P$$

$$2(84) + 2(48) = 264 \text{ m}$$

- a) 132 m    b) 244 m    c) 264 m    d) 4 032 m<sup>2</sup>

73. How many 1-cm-square stickers are needed to cover a photo box 4 cm long, 3 cm wide and 5 cm high?

$$\begin{aligned} \text{SA} &= 2 [ \text{lw} + \text{lh} + \text{wh} ] \\ &= 2 [ (4)(3) + (4)(5) + (3)(5) ] \\ \text{SA} &= 94 \end{aligned}$$

- a) 47      b) 60      c) 88      d) 94

74. One side of a triangle is 3 cm longer than the shortest side, and the other side is 4 cm longer than the shortest side. How long is the shortest side if the perimeter is 67 cm?

let  $a$  = shortest side  $b$  = second side  $c$  = third side

$$\begin{aligned} a + b + c &= P \\ a + (a+3) + (a+4) &= 67 \\ 3a + 7 &= 67 \\ 3a &= 67 - 7 \\ 3a &= 60 \\ a &= 20 \text{ cm} \end{aligned}$$

- a) 20 cm      b) 23 cm      c) 24 cm      d) 27 cm

75. The length of a rectangle is 2 cm less than twice its width. What is its width in cm, if its perimeter is 50 cm?

$$\begin{aligned} 2L + 2W &= P \\ 2(2W - 2) + 2W &= 50 \\ 4W - 4 + 2W &= 50 \\ 6W - 4 &= 50 \\ 6W &= 54 \\ W &= 9 \text{ cm} \end{aligned}$$

- a) 8      b) 9      c) 16      d) 25

## Data Sufficiency Solutions and Explanations

1. By what percent was the price per kilo of chicken increased?
- The price per kilo of chicken was increased by P20.
  - The price per kilo of chicken after the increase was P120.

In (1) only the increase in price is given, and both the original and final prices are unknown. Thus, the percent increase cannot be determined from (1) alone, and the answer must be B, C, or E. In (2), only the final price is given, so the percent increase cannot be determined from (2) alone, and the answer must be C or E. From (1) and (2) together, the amount of increase is known and the price before the increase can be computed. Therefore, the percent increase can be determined, and the best answer is C

2. A real estate broker received a commision of 8% of the selling price of a certain property, what was the selling price of the property?
- The selling price minus the real estate broker's commission was P 9 200 000.
  - The selling price was 250% of the original purchase price of P 4 000 000.

From (1) it follows that P 9 200 000 is 92% ( $100\% - 8\%$ ) of the selling price, and thus the selling price,  $\frac{P\ 9\,200\,000}{0.92}$ , can be determined.

Therefore (1) alone is sufficient, and the answer can be A or D. From (2) it follows that the selling price is 2.5 (P 4 000 000). Thus, (2) alone is also sufficient, and the best answer is D.

3. Chin-Chin and Queenie May were among those who sold raffle tickets to raise money for the club. If Chin-Chin and Queenie May sold a total of 168 tickets, how many tickets did Chin-Chin sell?

- (1) Queenie May sold 60% as many raffle tickets as Chin-Chin.

- (2) Queenie May sold 8% of all the raffle tickets sold.

If Chin-Chin sold  $c$  tickets and Queenie May sold  $q$  tickets, then  $c + q = 168$ . According to (1),  $q = 0.60c$ . The value of  $c$  can be determined by solving both equations simultaneously. Therefore, the answer must be A or D. From (2) the number of raffle tickets that Queenie May sold cannot be determined since the total number of tickets sold is unknown. Thus (2) alone is not sufficient, and the best answer is A.

4. What is the ratio of  $m : s : a$ ?

(1)  $a = 2$ , and  $ms = 64$ .      (2)  $\frac{m}{s} = 2$  and  $\frac{a}{s} = \frac{1}{4}$

Statement (1) alone is clearly not sufficient to answer the question. For example, if  $m = 8$  and  $s = 8$ , the ratio is  $8 : 8 : 2$  or  $4 : 4 : 1$ , but if  $m = 4$  and  $s = 16$ , the ratio is  $4 : 16 : 2$  or  $2 : 8 : 1$ . thus, the answer must be B, C, or E. Statement (2) alone is sufficient, since multiplying the

two equations by  $s$  yields  $m = 2s$  and  $a = \frac{1}{4}s$ . Therefore the

resulting ratio is  $2s : s : \frac{1}{4}s$  or multiplying every term of the

ratio by  $\frac{4}{s}$  will result to  $8 : 4 : 1$  and the best answer is B.

5. If  $x$  and  $y$  are integers, is  $x$  divisible by 17?

- (1) The product  $xy$  is divisible by 17.

- (2)  $y$  is not divisible by 17.

If a product  $xy$  is divisible by the prime number 17, then either  $x$  is divisible by 17 or  $y$  is divisible by 17. Hence, statement (1) alone implies that either  $x$  or  $y$  is divisible by 17, but it is not sufficient to determine that  $x$  is divisible by 17. Therefore, the answer must be B, C, or E. Statement (2) alone is clearly not sufficient, since there is no information about  $x$  is given. Hence the answer must be C or E. The two statements together are sufficient: If  $xy$  is divisible by 17 and  $y$  is not then  $x$  is divisible by 17. Thus, the best answer is C.

## Mathematics Solutions

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6. On Saturday morning the printing machine of Gerpress Printing ran continuously at uniform rate to fill a production order. At what time did it completely fill the order that morning?
- (1) The supervisor began the plan for production at 8:08 a.m.  
(2) The machine had filled 50% of the order at 9:48 a.m. and  
 $83 \frac{1}{3} \%$  of the order by 10:18 a.m.

Statement (1) is clearly not sufficient, since it merely states that the supervisor began the plan for production at 8:08a.m. Hence, the answer must be B, C or E. From statement (2) it can be concluded that

$83 \frac{1}{3} \% - 50 \% = 33 \frac{1}{3} \% = \frac{1}{3}$  of the order was filled in 30 minutes, so the entire order can be completely filled in  $3 \times 30 = 90$  minutes or 45 minutes after 9:48 a.m. or at 10:33 a.m. and the best answer is B.

7. How many books does Gerard have?
- (1) If Gerard had 18 fewer books, he would have only half as many as he actually has.  
(2) Gerard has three times as many fiction as non-fiction books.

Statement (1) implies that 18 books represent half the total number of books that Gerard has. So Statement (1) alone is sufficient, and the answer must be A or D. Statement (2) alone is not sufficient, since it only gives the ratio of the number of fiction to the number of non-fiction books. Therefore the best answer is A.

8. What number is 24% of  $x$ ?
- (1) 16 is 8% of  $x$ .  
(2)  $\frac{1}{8}$  of  $x$  is 1600.

The question can be answered if the value of  $x$  is known. In statement (1) states that  $16 = 0.08x$ , and the value of  $x$  can be solved. Thus, statement (1) is sufficient, and the answer must be A or D. Statement (2) alone is sufficient since it states that  $1/8x = 1600$ , in which the value of  $x$  can be solved. Therefore the best answer is D.

9. What was the total amount raised for the Payatas Tragedy ?
- Of the amount donated, 48% came from private corporations.
  - Of the amount donated, P15M came from personal donations.

The amount of money donated was the total of private corporations and personal donations. Statement (1) alone is not sufficient, since it gives only the portion that represents private corporations. Thus, the answer must be B, C, or E. Similarly, statement (2) alone is not sufficient, since it gives only the amount from personal donations. If the total amount donated was  $m$ , then (1) and (2) together can be expressed as  $0.48m + \text{P}15\text{M} = m$ , which can be used to solve for  $m$ . Thus the best answer is C.

10. Miriam's total score in the three bowling games was 530. What were her scores?
- Miriam's highest score was 198.
  - The sum of Miriam's two highest scores was 368?

Statement (1) alone is not sufficient, since it did not mention the relationship with the other scores. Statement (2) alone is not sufficient to find the other two scores. But (1) and (2) together are sufficient. let  $x$  be the lowest score,  $y$  the second score and  $z$  be the highest score.  $x + y + z = 530$ ;  $z = 198$  and  $y + z = 368$ , therefore  $y = 368 - 198 = 170$  and  $x = 530 - 368 = 162$ . so the best answer is C.

11. Is the value of  $n$  closer to 48 than to 78?
- $78 - n > n - 48$
  - $n > 60$

The value of  $n$  is equidistant between 48 and 78 provided that  $n$  is in the midpoint of 48 and 78, i.e.,  $n = (48 + 78) \div 2 = 63$ . Therefore, statement (1) alone is sufficient, and the answer must be A or D. Statement (2) alone is not sufficient, since  $n$  between is 60 and 63,  $n$  is closer to 48; whereas if  $n$  is greater than 63,  $n$  is closer to 78. Thus the best answer is A.

12. In last Saturday's Midnight Sale at Sta. Lucia Mall a certain shop sold 75% of the shirts in its inventory. Each shirt was sold for P358. What was the total revenue from the sale of these shirts on that day?

- (1) When the shop opened last Saturday, there were 448 shirts in its inventory.
- (2) All but 112 of the shop's inventory were sold last Saturday.

Statement (1) states that there are 448 in the inventory. So, the gross revenue =  $0.75 \times 448 \times P 358 = P 120\,288$ . Statement (1) alone is sufficient, so the answer must be A or D. Statement (2) alone is also sufficient since 112 is 25% of the total number of shirts, the gross revenue can be computed as  $3 \times (112) \times P358 = P 120\,288$ . The best answer therefore is D.

13. How many more boys than girls are there in the room?

- (1) There is a total of 56 girls and boys in the room.
- (2) The number of boys in the room equals the square of the number of girls in the room.

To answer this question we should know  $b - g$ . Statement (1) states that  $b + g = 56$ , which is not sufficient to answer the question and the answer must be B, C, or E. Statement (2) states that  $b = g^2$ . So statement (2) alone is not sufficient. But (1) and (2) together is sufficient to answer the question.  
$$g^2 + g = 56; \quad g^2 + g - 56 = 0; \quad (g + 8)(g - 7) = 0 \Rightarrow g = 7.$$
 So the best answer is C.

14. In what year was Gerard born?

- (1) Gerard's friend Mary Angela, who is  $\frac{1}{2}$  years younger than him, was born in 1979.
- (2) In 1998 Gerard turned 20 years old.

Statement (1) states that Mary Angela was born sometime in 1979. If she was born in the first half of 1979, then Gerard

who is  $\frac{1}{2}$  years older was born in 1978, but if Mary Angela was born in the second half of 1979 then Gerard was born in 1979. Therefore statement (1) is not sufficient, the answer must be B, C, or E. Statement (2) is sufficient to answer the question that Gerard was born in 1978, therefore the best answer is B.

15. A box contains 48 balls, of which 30 are red and 18 are blue. If 16 of the balls are removed, how many of the balls left in the box are blue.

- (1) Of the balls removed, the ratio of the number of red ones to the number of blue ones is 5 : 3.  
(2) Of the first 8 marbles removed, 5 are red.

From statement (1) we know that of the 16 balls removed 10 are red and 6 are blue. Since there were originally 18 blue balls,  $18 - 6 = 12$  balls are left in the box. So, statement (1) alone is sufficient to answer the question; and the answer must be A or D. Statement (2) alone is not sufficient to answer because knowing that 5 of the first 8 balls removed were red, does not tell us how many of the other 8 balls removed were red. Therefore, statement (1) alone is sufficient, but statement (2) alone is not. The best answer is A.

16. How long did it take Mrs. Alferez to drive non-stop on a trip from her home to Ayala Alabang?

- (1) If Mrs. Alferez's average speed for the trip had been 1.25 times as fast, the trip would have taken 2 hours.  
(2) Mrs. Alferez's average speed for the trip was 80 km per hour.

Given that  $d = rt$  where  $r$  is the rate in km per hr,  $t$  is the time in hours, and  $d$  is the distance in km. From statement (1)  $d = rt$     $r_1 = (1.25r)$     $t = ?$     $d = d_1$     $rt = r_1t_1$     $(r)(t) = (1.25r)(2)$     $t = 2.5$  hrs. Statement (1) alone is sufficient to answer the question. Statement (2) alone is not sufficient since the distance is unknown. Therefore the best answer is A.

17. If Myrna had a dentist's appointment on a certain day, was the appointment on a Friday?

(1) Exactly 64 hours before the appointment, was a Wednesday.

(2) The appointment was between 2:00 p.m. to 7:00 p.m.

Statement (1) alone is not sufficient since it is not stated what time on Wednesday was 64 hours before the appointment. Statement (2) is certainly not sufficient since no information is given about the day of the appointment. From (1) and (2) together it can be concluded that the appointment was on a Friday; 64 hours before any time in the afternoon is a time in the morning two days earlier; so 64 hours before Friday is Wednesday and the appointment is in the afternoon. So the best answer is C.

18. What was the average number of kilometers per liter of gasoline a car can consume during a certain trip?

(1) The total cost of the gasoline used by the car or the 640-km trip was P 1.152.

(2) The cost for the gasoline used by the car for the trip was P18.00 per liter.

Statement (1) states the number of km traveled. However the number of liters of gasoline used cannot be determined, since only the total cost of gasoline used is given. So, statement (1) alone is not sufficient and the answer must be B, C, or E. Statement (2) alone is obviously not sufficient, but it gives additional information needed in (1) to determine the number of liters used. Once the number of kilometers traveled and the number of liters used are known, the average number of km per liter can be determined. Therefore, (1) and (2) together are sufficient, and the best answer is C.

19. What is the ratio of  $a$  to  $b$ ?

- (1)  $a$  is 8 more than twice  $b$ .
- (2) The ratio of  $a$  to  $4b$  is  $3 : 7$ .

Statement (1) can be expressed as  $a = 2b + 8$ , is obviously not sufficient and that  $a : b$  depends on  $b$ . The answer must be B, C, or

E. Statement (2) can be expressed as  $\frac{a}{4b} = \frac{3}{7}$ ; so  $\frac{a}{b} = \frac{12}{7}$ .

Therefore (2) alone is sufficient, and the best answer is B.

20. At MSA Tutorial and Review Center, 400 students are enrolled for the Review Program or Academic Advancement Program or both. If 100 of these students are not enrolled in the Review Program, how many of them are enrolled in both MSA Review Program and MSA Academic Advancement Program?

- (1) Of the 400 students, 160 are not enrolled in the MSA Academic Advancement Program.
- (2) A total of 240 of the students are enrolled in the MSA Academic Advancement Program.

Let  $a$  be the number of students who are enrolled in the MSA Review Program only;  $b$  the number of students who are enrolled in the MSA Academic Advancement program only and  $c$  the number of students who are enrolled in both MSA Review Program and MSA Academic Advancement Program. Statement (1) alone is sufficient, since it states the number of students who are not enrolled in the MSA Academic Advancement Program  $a = 160$  and since  $a + c + 100 = 400$  then  $c = 140$ . Thus, the answer must be A or D. Statement (2) is also sufficient, since  $240 = c + 100$ ;  $c = 140$ . The best answer is D.

## **Mathematics**

1. c	16. c	31. d	46. a	61. d
2. b	17. d	32. d	47. c	62. a
3. a	18. b	33. a	48. b	63. a
4. d	19. d	34. a	49. b	64. a
5. b	20. a	35. a	50. d	65. a
6. d	21. a	36. d	51. a	66. c
7. b	22. d	37. b	52. c	67. a
8. a	23. d	38. a	53. c	68. b
9. d	24. a	39. b	54. c	69. b
10. d	25. b	40. c	55. b	70. d
11. a	26. c	41. d	56. d	71. b
12. b	27. d	42. b	57. a	72. c
13. c	28. c	43. c	58. c	73. d
14. b	29. b	44. b	59. c	74. a
15. c	30. d	45. d	60. c	75. b

## **Data Sufficiency**

1. c	5. c	9. c	13. c	17. c
2. d	6. b	10. c	14. b	18. c
3. a	7. a	11. a	15. a	19. b
4. b	8. d	12. d	16. a	20. d

## **English**

### **Alphabetizing**

1. b	5. d	9. b	13. c	17. d
2. a	6. a	10. d	14. b	18. a
3. d	7. a	11. a	15. a	19. c
4. c	8. b	12. c	16. a	20. b

### **Synonyms**

1. a	9. d	17. a	25. d	33. a
2. a	10. c	18. b	26. c	34. c
3. c	11. b	19. a	27. a	35. a
4. d	12. c	20. c	28. b	36. b
5. b	13. a	21. c	29. a	37. a
6. d	14. b	22. b	30. c	38. d
7. a	15. d	23. b	31. d	39. b
8. b	16. d	24. a	32. d	40. c

**Antonyms**

1. b	9. d	17. b	25. b	33. a
2. a	10. d	18. c	26. d	34. d
3. c	11. b	19. a	27. d	35. b
4. c	12. a	20. d	28. a	36. d
5. c	13. c	21. a	29. c	37. d
6. a	14. d	22. c	30. a	38. c
7. c	15. a	23. b	31. c	39. c
8. a	16. c	24. a	32. b	40. a

**Single-Word Analogy**

1. b	9. a	17. a	25. b	33. b
2. a	10. d	18. d	26. a	34. c
3. a	11. c	19. c	27. c	35. b
4. d	12. b	20. b	28. d	36. a
5. c	13. b	21. d	29. d	37. b
6. a	14. d	22. c	30. c	38. d
7. c	15. c	23. a	31. b	39. b
8. c	16. b	24. b	32. a	40. c

**Double-Word Analogy**

1. b	9. a	17. d	25. c	33. d
2. a	10. d	18. a	26. a	34. c
3. d	11. c	19. b	27. a	35. a
4. c	12. b	20. c	28. b	36. b
5. a	13. b	21. d	29. d	37. a
6. a	14. a	22. b	30. b	38. c
7. d	15. a	23. a	31. c	39. d
8. c	16. c	24. b	32. a	40. a

### **Identifying Errors**

- |                                 |                     |
|---------------------------------|---------------------|
| 1. b- was happy                 | 11. b- are          |
| 2. a- House of Representatives' | 12. c- enjoy        |
| 3. c- meets                     | 13. e               |
| 4. d- legislate                 | 14. b- knows        |
| 5. b- has                       | 15. e               |
| 6. e                            | 16. c- enrich       |
| 7. c- contest                   | 17. a- has          |
| 8. e                            | 18. b- is           |
| 9. b- affirms                   | 19. c- wasn't       |
| 10. b- is                       | 20. d- takes care   |
|                                 |                     |
| 21. c- are                      | 31. a- believe      |
| 22. d- rises                    | 32. c- singing      |
| 23. a- me                       | 33. c- is           |
| 24. b- publishing               | 34. e               |
| 25. b- have                     | 35. d- go           |
| 26. e                           | 36. d- they         |
| 27. c- comic book               | 37. a- suggest      |
| 28. b- drawn                    | 38. c- need         |
| 29. b- first appeared           | 39. c- go           |
| 30. c- think                    | 40. c- was          |
|                                 |                     |
| 41. d- as                       | 51. c- has received |
| 42. b- believe                  | 52. d- drunk        |
| 43. d- among                    | 53. c- used         |
| 44. b- him                      | 54. e               |
| 45. a- Among                    | 55. a- trains       |
| 46. c- works                    | 56. e               |
| 47. d- them                     | 57. b- has infected |
| 48. a- seems                    | 58. b- allows       |
| 49. c- readers'                 | 59. c- were         |
| 50. e                           | 60. b-comes         |

**Paragraph Development**

- |      |      |      |      |       |
|------|------|------|------|-------|
| 1. d | 3. c | 5. b | 7. a | 9. a  |
| 2. c | 4. c | 6. b | 8. c | 10. d |

**Correct Usage**

- |      |       |       |       |       |
|------|-------|-------|-------|-------|
| 1. c | 9. a  | 17. d | 25. a | 33. a |
| 2. b | 10. c | 18. b | 26. b | 34. c |
| 3. b | 11. d | 19. a | 27. b | 35. c |
| 4. a | 12. a | 20. d | 28. d | 36. a |
| 5. a | 13. c | 21. a | 29. b | 37. b |
| 6. b | 14. a | 22. c | 30. c | 38. c |
| 7. c | 15. a | 23. d | 31. b | 39. d |
| 8. b | 16. c | 24. d | 32. b | 40. d |

**Reading Comprehension**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. c  | 11. a | 21. a | 31. b | 41. c |
| 2. a  | 12. b | 22. c | 32. d | 42. c |
| 3. a  | 13. c | 23. c | 33. d | 43. b |
| 4. b  | 14. a | 24. a | 34. a | 44. a |
| 5. d  | 15. b | 25. c | 35. a | 45. b |
| 6. b  | 16. c | 26. d | 36. c | 46. d |
| 7. b  | 17. a | 27. d | 37. d | 47. c |
| 8. c  | 18. c | 28. a | 38. d | 48. a |
| 9. a  | 19. b | 29. c | 39. c | 49. b |
| 10. d | 20. d | 30. a | 40. b | 50. b |

## Filipino

### Kasing-Kahulugan

1. b	6. a	11. b	16. a	21. d
2. a	7. b	12. b	17. c	22. b
3. d	8. c	13. c	18. d	23. a
4. a	9. a	14. b	19. b	24. c
5. d	10. d	15. d	20. a	25. a

### Kasalungat

1. b	6. c	11. d	16. d	21. c
2. c	7. b	12. b	17. d	22. d
3. a	8. a	13. a	18. a	23. b
4. a	9. d	14. a	19. b	24. c
5. a	10. c	15. a	20. c	25. a

### Mga Kawikaan

1. b	6. a	11. b	16. a	21. b
2. c	7. d	12. c	17. c	22. c
3. a	8. d	13. c	18. b	23. c
4. b	9. b	14. a	19. d	24. b
5. d	10. c	15. c	20. a	25. d

### Wastong Gamit

1. b	7. a	13. a	19. b	25. b
2. a	8. d	14. b	20. c	26. a
3. d	9. b	15. a	21. d	27. d
4. a	10. c	16. b	22. c	28. a
5. c	11. c	17. c	23. d	29. b
6. c	12. a	18. a	24. a	30. c

### Pagkilala Sa Mali

1. d	6. b	11. a	16. e	21. c
2. a	7. b	12. a	17. d	22. b
3. b	8. c	13. b	18. b	23. e
4. e	9. b	14. a	19. b	24. a
5. a	10. c	15. d	20. e	25. d

**Filipino****Pag-unawa sa Binasa**

- |      |       |       |       |       |
|------|-------|-------|-------|-------|
| 1. b | 7. c  | 13. c | 19. a | 25. b |
| 2. a | 8. b  | 14. c | 20. c | 26. c |
| 3. a | 9. d  | 15. a | 21. b | 27. d |
| 4. d | 10. c | 16. d | 22. d | 28. c |
| 5. a | 11. b | 17. c | 23. d | 29. a |
| 6. b | 12. a | 18. b | 24. d | 30. b |

**Pagtatalata**

- |      |      |      |      |       |
|------|------|------|------|-------|
| 1. d | 3. b | 5. d | 7. b | 9. d  |
| 2. c | 4. c | 6. c | 8. a | 10. b |

**Constitution**

- |      |       |       |       |       |
|------|-------|-------|-------|-------|
| 1. c | 7. b  | 13. a | 19. d | 25. b |
| 2. d | 8. d  | 14. a | 20. a | 26. b |
| 3. d | 9. c  | 15. a | 21. c | 27. a |
| 4. b | 10. c | 16. c | 22. a | 28. d |
| 5. a | 11. b | 17. c | 23. c | 29. b |
| 6. a | 12. b | 18. d | 24. d | 30. c |

**Explanations to Answers in Inductive Reasoning**

1.  $3 \quad \overset{+3}{6} \quad \overset{+3}{9} \quad \overset{+3}{12} \quad \overset{+3}{15} \quad \overset{+3}{\underline{18}}$

2. C D E F G H I J K L M

3. I J K L M N O P Q R S

4. B C D E F G H I J K L

5.  $10 \quad \overset{+7}{17} \quad \overset{+2}{26} \quad \overset{+2}{37} \quad \overset{+13}{\underline{50}}$

6.  $37 \quad \overset{+13}{50} \quad \overset{+15}{65} \quad \overset{+17}{82} \quad \overset{+19}{\underline{101}}$

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### Answer Key

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7.  $\begin{array}{ccccccccc} 3^3 & & 5^2 & & 8^2 & & 12^2 \\ 7. \quad 3 & 9 & 5 & 25 & 8 & 64 & 12 & 144 & \underline{17} \\ +2 & & +3 & & +4 & & +5 \end{array}$

8. AB CD EF GH IJ KL MN OP QR

9. ZY x WV u TS r QP o NM

10. DC f e HG j i LK n m PO r q TS

11.  $\begin{array}{cccccccccc} +1 & +3 & +2 & +1 & +2 & +1 & +7 & +1 & +2 & +9 \\ 1. \quad 1 & 2 & 5 & 6 & 11 & 12 & 19 & 20 & \underline{29} \end{array}$

12.  $\begin{array}{cccccccccc} x2+1 & x2+1 & x2+1 & x2+1 & x2+1 \\ 4 & 9 & 5 & 11 & 6 & 13 & 7 & 15 & \underline{8} \\ +1 & & +1 & & +1 & & +1 \end{array}$

13.  $\begin{array}{cccccc} x2 & x3 & x2 & x3 & x2 \\ 6 & 12 & 36 & 72 & 216 & \underline{432} \end{array}$

14. A b CC d E FFF GHI J

15.  $\begin{array}{cccccc} x2 & x3 & x2 & x2 & x3 & x2 \\ 1. \quad 1 & 2 & 6 & 12 & 36 & \underline{72} \end{array}$

16. HH ijk LL MNO PP QRS TT uvw X

17. EF HG IJ LK

18.  $\begin{array}{ccccccccc} -1 & & -1 & & & & & & \\ 6 & 12 & 7 & 11 & 8 & 10 & 9 & & \\ +1 & & +1 & & +1 & & & & \end{array}$

19. A b C d E F GHI J KLMN O PQRST U

20. B c D E f GHI j KLMN

21. A B C D E F G

22. N O P Q R S T

23.  $\begin{array}{ccccccccc} +5 & \times 6 & +7 & \times 8 & +9 \\ 3 & 8 & 48 & 55 & 440 & \underline{449} \end{array}$

24. 16    12     $\begin{array}{r} -1 \\ +1 \end{array}$     17    11     $\begin{array}{r} -1 \\ +1 \end{array}$     18    10

25. 29    58     $\begin{array}{r} +3 \\ \times 2 \end{array}$     29     $\begin{array}{r} +3 \\ \times 5 \end{array}$     145    29     $\begin{array}{r} +8 \\ \times 8 \end{array}$     232

26. MZ    KX    IV    GT    ER

AN-BO-CP-DQ-ER-FS-GT-HU-IV-JW-KX-LY-MZ

27. LO    KP    JQ    IR    HS    GT  
A    B    C    D    E    F    G    H    I    J    K    L    M  
Z    Y    X    W    V    U    T    S    R    Q    P    O    N

28. G    F    I    H    K    J  
G    F    I    H    K    J    M    L    N    O

29. AZ    BY    CX    DW    EV    FU  
Use the same letter series used in 27 for this number.

30. 396    384     $\begin{array}{r} -12 \\ -14 \end{array}$     370     $\begin{array}{r} -16 \\ -18 \end{array}$     354     $\begin{array}{r} -18 \\ -20 \end{array}$     336    316

31. 15    17     $\begin{array}{r} +2 \\ +1 \end{array}$     18     $\begin{array}{r} +3 \\ +1 \end{array}$     21    22    26

32. 7     $\begin{array}{r} \times 3 \\ 21 \end{array}$     14     $\begin{array}{r} \times 3 \\ 42 \end{array}$     42    42    126

33. 314     $\begin{array}{r} +7 \\ +1 \end{array}$     321     $\begin{array}{r} +8 \\ +2 \end{array}$     322    330     $\begin{array}{r} +9 \\ +2 \end{array}$     332    341

34. F21    H19    K16    O12    T7    Z1  
A26    B25    C24    D23    E22    F21    G20    H19    I18  
J17    K16    L15    M14    N13    O12    P11    Q10    R9  
S8    T7    U6    V5    W4    X3    Y2    Z1

35. I18    K16    m14    O12    Q10

Use the same letter series above.

36. BO    DQ    FS    HU    JW    LY

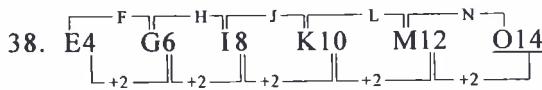
Use the same letter series used in number 26.

## Answer Key

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37. BC PQ EF ST HI

A BC D EF G HI J KL M NO P QR S TU V WX Y Z



39. DQ4 GT7 CP3 HU8 BO2 IV9

AN1 BO2 CP3 DQ4 ER5 FS6 GT7 HU8 IV9 JW10 KX11 LY12 MZ13  
5th 3rd 1st 2nd 4th 6th

40. AN1 CP3 ER5 GT7 IV9 KX11 MZ13

Use the same letter series above.

41. A1 C3 E5 G7

A1 B2 C3 D4 E5 F6 G7 H8 I9 J10 K11 L12 M13 N14 O15 P16 Q16  
R17 S18 T19 U20 V21 W22 X23 Y24 Z26

42. A26 C24 F21 J17

A26 B25 C24 D23 E22 F21 G20 H19 I18 J17 K16 L15 M14 N13 O12  
P11 Q10 R9 S8 T7 U6 V5 W4 X3 Y2 Z1

43. J10 L12 N14 P16

Use the same letter series as in number 41.

44. 8R 6T 4V 2X

Use the same letter series as in number 42, but subtract 1 from their assigned values.

45. J1017 L1215 N1413 P1611

A126 B225 C324 D423 E522 F621 G720 H819 I918 J1017 K1116 L1215 M1314  
N1413 O1512 P1611 Q1710 R189 S198 T207 U216 V225 W234 X243 Y252 Z261

46. AC FH KM PR

AbC DE FgH IJ KIM NO PgR ST UvW XY Z

47. 1516 1819 2122 2425

15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25

48. 
$$\begin{array}{r} 1121 \\ \times 2 \\ \hline 1\ 12\ 1 \end{array}$$
    
$$\begin{array}{r} 2242 \\ \times 2 \\ \hline 2\ 24\ 2 \end{array}$$
    
$$\begin{array}{r} 3483 \\ \times 2 \\ \hline 3\ 48\ 3 \end{array}$$
    
$$\begin{array}{r} 4964 \\ \hline 4\ 96\ 4 \end{array}$$

49. 
$$\begin{array}{cccc} aa33bb & cc77dd & ee1111ff & gg1515hh \\ \hline aa\ 3\ 3\ bb & cc\ 7\ 7\ dd & ee\ 1\ 1\ 1\ 1\ ff & gg\ 1\ 5\ 1\ 5\ hh \\ +4 & +4 & +4 & +4 \\ \hline & & & \end{array}$$

50. 
$$\begin{array}{cccc} b9b9 & c7c7 & d5d5 & e3e3 \\ \hline -2 & -2 & -2 & -2 \\ \hline -2 & -2 & -2 & -2 \end{array}$$

### Abstract Reasoning

- |       |       |       |
|-------|-------|-------|
| 1. d  | 11. c | 21. b |
| 2. b  | 12. b | 22. d |
| 3. b  | 13. a | 23. d |
| 4. c  | 14. d | 24. a |
| 5. d  | 15. d | 25. b |
| 6. a  | 16. b | 26. c |
| 7. d  | 17. b | 27. c |
| 8. d  | 18. b | 28. c |
| 9. c  | 19. b | 29. b |
| 10. b | 20. d | 30. d |

# **MSA**

## **Training Programs**

### **TOEFL - IBT**

Test of English  
as a  
Foreign Language  
- Internet Based Test

### **IELTS**

International  
English Language  
Testing System

### **Call Center Training**

### **English Proficiency Training**

Speaking

Writing

Grammar

Reading Comprehension

### **Schedules**

#### **Saturday**

8:00 am - 12:00 pm  
1:00 pm - 5:00 pm

#### **Sunday**

8:00 am - 12:00 pm  
1:00 pm - 5:00 pm

#### **Monday to Friday**

10:00 am - 12:00 pm  
1:00 pm - 3:00 pm

#### **Mon - Wed - Fri**

evening classes  
6:00 pm - 8:00 pm

#### **Tue - Thur - Sat**

evening classes  
6:00 pm - 8:00 pm



### **ACADEMIC ADVANCEMENT INSTITUTE**

315 Katipunan Ave., Loyola Heights, Quezon City

**925-7544 • 929-9145 • 929-9159**

### **MSA Alabang**

**MSA Prime Center Building**

Madrigal Business Park

**659-1022 • 659-0085**

### **MSA Makati**

101 Esteban corner Dela Rosa

Legaspi Village

**815-1307 • 893-3326**