

# **PART 2**

Grace D. Tiqui

1. What is the average of A, B, and C?

a.  $ABC/3$

b.  $(A+B+C) /3$

c.  $3(A+B+C)$

d.  $ABC/A+B+C$



2. Which of the following has the LEAST numerical value?

a.  $11/2$

b.  $5/7$

c.  $6/8$

d.  $\frac{3}{4}$

e.  $10/11$



3. If an apple cost P25.00, how many apples can be purchased for P100.00?

- a. 8 apples
- b.  $\frac{1}{2}$  dozen
- c. 2 dozens
- d.  $1\frac{1}{2}$  dozens
- e. none of these



4. If 2 tablespoons = 1 liquid oz, and 5 tablespoons =  $\frac{1}{4}$  cup, then, How many liquid ounces are there in one cup?

- a. 4 ounces
- b. 8 ounces
- c. 16 ounces
- d. 24 ounces
- e. none of these



5. 2 is what percent of 5?

a. 25%

b. 35%

c. 40%

d. 38%

e. 45%





6. Five (5) average office workers earn a total average monthly salary of P 10,000. If the average monthly salary of two of these workers total P40,000 What is the average monthly income of each of the remaining three workers?

- a. P6,000.00
- b. P2,000.00
- c. P2,500.00
- d. P4,000.00
- e. none of these



7. Which of the following expressions has the LEAST value?

a.  $6 + 3 \times 3$

b.  $6 \times 4 + 3$

c.  $6 + 4 \times 3$

d.  $2 + 6 \times 4$

e.  $6 \times 3 = 4$





8. 3.54 is multiplied by 10 to the fifth power, what would be the value?

- a. 3.054
- b. 30.54
- c. 305.4
- d. 35, 400
- e. 354,000



9. If the short hand of the clock is at 4 (4 o'clock), what is the degree measure of the angle?

- a. 90
- b. 120
- c. 130
- d. 150
- e. 110



10. There are two numbers whose sum is 48. One of the numbers is greater by 6. What are the numbers?

a. 23, 24

b. 21, 27

c. 22, 26

d. 23, 26

e. 20, 28



11. Add:  $17 \frac{5}{8} + 21 \frac{3}{4} = ?$

a.  $38 \frac{3}{8}$

b.  $39 \frac{3}{8}$

c.  $39 \frac{4}{8}$

d.  $38 \frac{4}{8}$

e.  $36 \frac{4}{8}$



12. My uncle's weight is two times that of my nephew. My aunt's weight is half of that of my nephew. What is the total weight of the three? Which of the following formula will apply for the correct answer.

a.  $x^3 + 2\frac{1}{2}$

c.  $(2x) + (x) + (1/2x)$

b.  $\frac{1}{2} + 3x$

d.  $2x + \frac{1}{2}x^2$



13.  $2\frac{3}{4}$  of P100 is equal to

a.  $\frac{6}{4} \times 100$

b.  $\frac{11}{4} \times 100$

c.  $\frac{11}{4} + 100$

d.  $\frac{6}{4} + 100$

e. none of these





14. Which of the following fractions is greater than  $\frac{1}{3}$ ?

a.  $\frac{22}{63}$

b.  $\frac{15}{46}$

c.  $\frac{4}{11}$

d.  $\frac{33}{98}$

e.  $\frac{102}{103}$



15. In  $1\frac{1}{2}$  hours, the minute hand of a clock rotates through an angle of how many degrees?

- a. 60
- b. 90
- c. 180
- d. 360
- e. 540



16. When the fractions  $\frac{2}{3}$ ,  $\frac{5}{7}$ ,  $\frac{8}{11}$  and  $\frac{9}{13}$  are arranged in ascending order, the result would be?

a.  $\frac{8}{11}$ ,  $\frac{5}{7}$ ,  $\frac{9}{13}$ ,  $\frac{2}{3}$

b.  $\frac{5}{7}$ ,  $\frac{8}{11}$ ,  $\frac{2}{3}$ ,  $\frac{9}{13}$

c.  $\frac{2}{3}$ ,  $\frac{8}{11}$ ,  $\frac{5}{7}$ ,  $\frac{9}{13}$

d.  $\frac{2}{3}$ ,  $\frac{9}{13}$ ,  $\frac{5}{7}$ ,  $\frac{8}{11}$

e.  $\frac{9}{13}$ ,  $\frac{2}{3}$ ,  $\frac{8}{11}$ ,  $\frac{5}{7}$



17. ADD:

$$48.63 + 96.28 + 436.45 + .2385 = ?$$

- a. 581.60
- b. 581.5985
- c. 581.5990
- d. 581.5986
- e. 581.59



18. 15 is 20% of what number?

a. 75

b. 78

c. 80

d. 70

e. 72



19. 7 is 5 percent of what number?

a. 120

b. 125

c. 145

d. 140

e. 150





20. The ratio of two numbers is  $5 : 3$  and their difference is 20. What are the numbers?

a. 50, 30

b. 55, 35

c. 40, 60

d. 45, 65

e. 50, 70



21. The ratio of two numbers is  $16 : 33$ .  
The larger number is 264.  
What is the smaller number?

a. 131

b. 130

c. 129

d. 128

e. 127



22.  $\frac{3}{4}$  of 100 is equal to 5 times of what number?

a. 10

b. 75

c. 25

d. 5

e. none of these



23. What is the smallest positive number which, when it is divided by 3, 4 or 5, will leave a remainder of 2 ?

- a. 42
- b. 22
- c. 62
- d. 122
- e. 182



24. Which of the following number has the largest numerical value ?

a.  $(3 + 3 + 3)^3$

b.  $(3 \times 3)^3$

c.  $(4 \times 3 \times 3)^2$

d.  $3^3 + 3^2$

e.  $(3 \times 3)^2$



25. Eight percent of 36 is 72% of what number?

a. 2.06

b. 2.88

c. 3.24

d. 4

e. 40





26. Which of the following has the greatest value?

a.  $\frac{6}{10}$

b.  $\frac{8}{12}$

c.  $\frac{17}{24}$

d.  $\frac{9}{14}$

e.  $\frac{7}{9}$



27. If 25% of 50% of 80 is 10,  
then  $\frac{1}{4}$  of  $\frac{5}{10}$  of 80 is

a. 40

b. 20

c. 15

d. 10

e. none of these



28. What number is 35 more than 70?

a. 105

b. 135

c. 170

d. 185

e. 125



29. The number is 15 less 7; when added to ten, what will the number be?

a. 28

b. 18

c. 17

d. 15

e. 16



30. What is  $-2 + (-3.1) + (-.02)$ ?

a.  $-.512$

b.  $5.012$

c.  $0.512$

d.  $-5.12$

e.  $-5.012$



# PROBLEM SOLVING





31. Aldrin Diego purchased a lawn mower which was sold at 20% discount. He paid Php 14,800.00 for the lawn mower. How much was the original price of the lawn mower?

- a. Php 18,250.00
- b. Php 18,565.00
- c. Php 18,500.00
- d. Php 18,575.00



32. Cindy is paid P 17,000 for a regular 40hr./week. Up to 40 hours, she is paid at the regular hourly rate. For overtime of more than 40 hrs, she receives  $1\frac{1}{2}$  times as much as the regular hourly rate. How many hours did she work during a particular week when she earned about P 24,650.00?

a. 48 hrs

c. 55 hrs

b. 52 hrs

d. 54 hrs



33. A stationery pad that sells for P18.50 can be bought for P150 when a dozen pads are purchased at one time. What is the savings per pad, in pesos, when the pads are purchased by dozen?

a. P 6.95

c. P 6.75

b. P 6.50

d. P 6.00



34. On the day of the school concert, 500 tickets were sold. The students paid P 150 each while non-students paid P 200 each. If the total P 85,000 was collected, how many non-students attended?

a. 250

c. 260

b. 230

d. 200



35. A faucet filled a 315 gallon tank in 9 hrs. Later, the tank suffered a crack at the bottom and started leaking at the rate of 6 gallons/ hr. How long will it take the faucet to refill the empty tank?

- |                       |           |
|-----------------------|-----------|
| a. 11 hrs and 29 mins | c. 11hrs  |
| b. 10 hrs and 48 mins | d. 13 hrs |





36. Joseph Martin divided his estate among his three children: Jose, Mar and Tin-Tin in the ratio of 3 : 2 : 2. If Tin-Tin received the amount of P 2.85M, What was the total estate?

a. P 10M

b. P 9.975M

c. P 9.5M

d. P 9.9M





37. The Makatuno family's monthly income is P25,000.00. The family spends 30% for food; 20% for rentals, 10% for clothing and 16% for miscellaneous. How much is saved in peso value?

a. P 6,250

b. P 6,520

c. P 6,000

d. P 6,400



38. A motorcycle covers 225kms in  $2\frac{1}{2}$  hrs. How far can he go in  $1\frac{3}{4}$  hrs?

- a. 158 kms
- b. 157.5 kms
- c. 150 kms
- d. 165 kms



39. Mang Teodoro, a gardener, can mow a lawn in 3 hrs. After 2 hrs, it rained and he stopped mowing the lawn. In the afternoon, Aling Maring completed the rest of the work in one hour and 30 minutes. How long would it take Aling Maring to mow the lawn by herself?

a. 1 hr and 30 mins  
c. 2 hrs

b. 2 hrs and 22 mins  
d. 2 hrs and 30 mins



40. A couple wants to have only four children so spaced that the first is older than the second by 2 years, the second older than the third by three years, the third older than the fourth by 4 years. If their plan is realized, how old will the eldest child be when the youngest is 9 years old?

a. 18 yrs old

b. 9 yrs old

c. 16 yrs old

d. 17 yrs old



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