

MATHS OLYMPIAD

PRACTICE BOOK



GRADE
5

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Preface

Our education system effectively provides an introduction to the concepts of Math and Science and helps us understand the underlying concepts. But in its overly generalized approach, which aims to enlighten and test all students of varying caliber and interests, it leaves the exploration of application of all these concepts completely on the students.

This workbook is designed to enable students to explore Maths effectively. Designed in accordance with the requirements of the Maths Olympiads, the workbook is an efficient tool to achieve comprehensive success at the **ISFO – Maths Olympiad**.

The main aim of this workbook is to assist students in developing and improving their ability to solve problems.

Each chapter of the book consists of 3 sets of questions.

- **Section A** (Mathematical Reasoning) : This section is created to test the knowledge of mathematical concepts and topic pertaining to the respective grades.
- **Section B** (Everyday Maths) : This section deals with the application.
- **Section C** (BrainBox) : Questions to prepare students with HOTS (Higher Order Thinking Skills) based on the syllabus provided.

Logical Reasoning section is provided to equip students with verbal and non-verbal analysis and reasoning skills.

Sample Test Papers and Answer keys have been provided to accelerate the learning process.





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SECTION - A : MATHEMATICAL REASONING

1. The difference between the place value and the face value of 4 in 81,24,567 is
 - a. 4000
 - b. 3096
 - c. 0
 - d. 3996
2. The number 90,56,543 has _____ lakhs.
 - a. 9
 - b. 09
 - c. 90
 - d. Both a and c
3. The place value which comes on immediate right to one million place in the international place value chart is
 - a. ten lakhs
 - b. ten crores
 - c. hundred
 - d. hundred thousand
4. The roman numeral that can never repeat is
 - a. V
 - b. X
 - c. I
 - d. All of the above
5. Commas are inserted in a number after each
 - a. period
 - b. digit
 - c. place
 - d. all of the above
6. Garima is XIII years old. Her sister is X years old. How old will they be when their total age is LV years?
 - a. XIX, XXII
 - b. XXV, XXII
 - c. XXIX, XXVI
 - d. XX, XXIII
7. Which of the following statements is incorrect?
 - a. The place value of the digit '2' in the number 532689 is 200 times the number 10.
 - b. In the number 8176942, the place value of digit '1' is 50000×20 .
 - c. The difference in the place values of the digit '7' and '4' in the number 6734581 is 696000.
 - d. The place value of the digit '5' in the number 7538612 is 21869 more than 478131.
8. _____ is equivalent to 10 million in Indian system of numeration.
 - a. One lakh
 - b. Ten lakh
 - c. One Crore
 - d. Ten crore
9. In which of the following commas are used according to the international place value chart for 283294518?
 - a. 2,8,32,94,518
 - b. 283,294,518
 - c. 2,832,94,518
 - d. None of these
10. What will we get if we add 100 to the successor of the greatest 6-digit number?
 - a. 10,00,100
 - b. 10,01,000
 - c. 11,00,000
 - d. 90,00,100
11. $36,48,16,309 \square 36,48,61,309$
a. >
b. <
c. =
d. None of these

12. The Roman numeral for the greatest two digit number is
- I
 - XX
 - XCIX
 - CXIX
13. The place value of 5 in 64,59,894 is
- Five millions
 - Five thousands
 - Fifty thousands
 - Five lakhs
14. The standard form of $900000000 + 300000 + 70000 + 200 + 10 + 7$ is
- 900370217
 - 900037217
 - 90370219
 - 90370217
15. The smallest 6-digit number that can be formed using 5, 6, 7, 4, 3 and 6 is
- 743665
 - 345667
 - 346675
 - 466537
16. Sixteen lakh sixteen thousand sixteen hundred and sixteen in numerals is

- 1617616
- 16161616
- 1616016
- 1601616

17. Ten million comes under _____ period.

- Crores
- Thousands
- Millions
- Lakhs

18. The predecessor of 100,000,000 is

- 99999999
- 99999999
- 999999
- 100,000,001

19. Choose the incorrect match.

- 499- CDXCIX
- 1667- MDCLXVII
- 3249- MMMCCXLIX
- 207- CCXVII

20. The number of zeroes in 10 million is

- 6
- 7
- 5
- 8

SECTION - B : EVERYDAY MATHS

21. Sumit makes a loss of rupees thirty-five million six hundred nine thousand seven hundred fifty-two. His loss can be written in numerals as
- ₹3,56,09,752
 - ₹35,609,752
 - ₹356,09,752
 - None of these
22. Sejal is XV years old. Her mother is XLVIII years old. How old is her mother than Sejal?
- XXIII
 - XLIII
 - XXXIII
 - XIII
23. Sam has five number cards with the numbers 8, 5, 0, 6, 2. Daniel asked him to form the greatest 5-digit even number with his cards. The number that sam has to form is

- 80,652
- 56,502
- 86,520
- 20,568

24. In Delhi elections 2015, the number of votes cast from East zone is 6,35,409; North zone is 6,52,314; South zone is 9,62,339 and West zone is 9,97,999. Which zone casts more number of votes?

- East zone
- North zone
- South zone
- West zone

25. Nehal scored 523 marks in her final exam. She wants to write her marks in Roman numerals. Which of the following is the Roman numeral for the given Hindu-Arabic number?

- DCXXIII
- DXXIII
- CDXXIII
- CCCCCXXIII

SECTION - C : BRAINBOX

26. Which of the following numbers complete the given series?

25 36 49 64 81 ?

- a. 121 b. 400
c. 92 d. 100

27. What number am I?

- * I am a 2-digit even number.
* I am a common multiple of 6 and 7.
* I have a total of 12 factors.
a. 35 b. 84
c. 36 d. 42

28. How many combinations of 2-digit numbers with number 8 can be made from the following digits?

8, 5, 2, 1, 7, 6

- a. 9 b. 10
c. 11 d. 12

29. The sum of the digits of a 5-digit number is 4. What will be the product of digits of this number?

- a. 1
b. 0
c. 4
d. 20

30. By how much will the value of the number 8080000 decreases if the digits in the ten thousands and the hundreds place are interchanged?

- a. 79200
b. 72000
c. 7920
d. 7200

Darken your choice with HB pencil -

1. a b c d

2. a b c d

3. a b c d

4. a b c d

5. a b c d

6. a b c d

7. a b c d

8. a b c d

9. a b c d

10. a b c d

11. a b c d

12. a b c d

13. a b c d

14. a b c d

15. a b c d

16. a b c d

17. a b c d

18. a b c d

19. a b c d

20. a b c d

21. a b c d

22. a b c d

23. a b c d

24. a b c d

25. a b c d

26. a b c d

27. a b c d

28. a b c d

29. a b c d

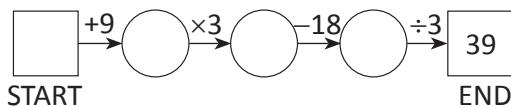
30. a b c d

Operations on Numbers

SECTION - A : MATHEMATICAL REASONING

1. There are 40 students in a class. The number of girls is 10 more than the number of boys. How many girls are there in the class?
- a. 15 b. 20
c. 25 d. 30

2. Rishi puts a number in the caps box of the sentence given below.



The number in the END box was 39. What number did Rishi put in the START box?

- a. 28 b. 36
c. 42 d. 45
3. Which pair of numbers complete the given equation?

$$\boxed{?} \times 100 = \boxed{?}$$

- a. 95 and 950 b. 95 and 9500
c. 95 and 95 d. 950 and 950
4. Which of the following results given below is not identical to $871 - 589$?
- a. $971 - 689$ b. $881 - 599$
c. $869 - 591$ d. $800 - 518$
5. The least common multiple of 5, 12 and 30 is
- a. 12 b. 30
c. 120 d. 60

6. $\square + \square + \Delta = 230$
 $\Delta - \square = 5$
What is the value of Δ ?
- a. 70 b. 80
c. 65 d. 75
7. Aman divided a certain number by 10 instead of multiplying it by 10 and got 600 as a result. What would the result be if he had not made that mistake?
- a. 60000 b. 6000
c. 600 d. 60
8. The highest common factor of 32 and 160 is
- a. 4 b. 8
c. 16 d. 32
9. The sum of all the factors of 12 is
- a. 15 b. 27
c. 28 d. 32
10. A man earns ₹2300 and spends ₹1875 every month. How much does he save in a year?
- a. ₹4250 b. ₹4500
c. ₹4750 d. ₹5100
11. The price of 1 dozen bananas is ₹96. What is the price of 10 bananas?
- a. ₹75 b. ₹80
c. ₹90 d. ₹960

12. What is the product of two whole numbers whose difference is 1?

- a. 63 b. 80
c. 90 d. 99

13. Which expression complete the given equation?

$$(19 \times 3) + (19 \times 1) = \boxed{\quad}$$

- a. $(19 + 3) \times (19 + 1)$
b. $(19 + 19) \times (3 + 1)$
c. $19 + (3 \times 1)$
d. $19 \times (3 + 1)$

14. Which of the following number sentences is true?

- a. $15 \times 3 = (10 \times 3) \div (5 \times 3)$
b. $15 \times 3 = (10 \times 3) \times (5 \times 3)$
c. $15 \times 3 = (10 \times 3) - (5 \times 3)$
d. $15 \times 3 = (10 \times 3) + (5 \times 3)$

15. The value of $13 \times 6 + 32 \div 4 + 14$ is

- a. 78 b. 100
c. 110 d. 144

16. Observe the following sums.

$$1 = 1 \times 1 = 1$$

$$1 + 3 = 2 \times 2 = 4$$

$$1 + 3 + 5 = 3 \times 3 = 9$$

$$1 + 3 + 5 + 7 = 4 \times 4 = 16$$

$$1 + 3 + 5 + 7 + 9 = 5 \times 5 = 25$$

.....

.....

The sum of $1 + 3 + 5 + 7 + 9 + \dots + 19$ is

- a. 64 b. 81
c. 100 d. 121

17. The quotient when 222816 is divided by 24 is

- a. 9286 b. 9248
c. 2984 d. 9284

18. Rohit baked 4000 cookies. He sold 1200 of them and gave the rest equally to 20 of his friends. How many cookies did each of his friend receive?

- a. 1400 b. 70
c. 2800 d. 140

19. There are 9 rows of seats in a theatre. Each row has the same number of seats. If there is a total of 162 seats, how many seats are there in each row?

- a. 17 b. 18
c. 19 d. 20

20. Dinesh has twice as many toffees as Vikas has. If both of them together have 18 toffees, then how many more toffees does Dinesh have than Vikas?

- a. 4 b. 5
c. 6 d. 8

SECTION - B : EVERYDAY MATHS

21. Three candidates contested in an election.

The total number of valid votes are 412130. If two of the candidates got 247653 and 98575 votes, respectively, then how many votes did the third candidate get?

- a. 346228 b. 65902
c. 758358 d. 149078

22. 1080 stickers were shared equally among 24 students. How many stickers did each student receive?

- a. 35 b. 38

- c. 45 d. 50

23. Ramesh deposited ₹2037 on Monday, ₹895 on Tuesday and ₹ 5986 on Wednesday in a bank. What is the balance in his account?

- a. ₹9818 b. ₹8918
c. ₹8198 d. ₹8189

24. A farmer Sudhir packed an equal number of oranges into each of the 15 baskets. If each basket contained 95 oranges, then how many oranges did he pack?
- 110
 - 1325
 - 1425
 - 1275
25. Mr Rao bought a television for ₹9588. He paid for it in six equal amounts every month for six months. How much did he pay every month?
- ₹1568
 - ₹1498
 - ₹1598
 - ₹1688

SECTION - C : BRAINBOX

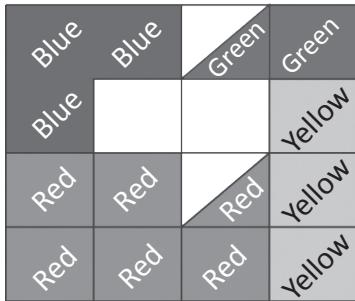
26. Sumit found a book that did not have certain pages when he opened the book he saw number 24 on the left side and number 45 on the right side. How many pages between these two pages were missing?
- 21
 - 20
 - 22
 - 10
27. John left for school with 4 boxes of pencils. Each box had 6 pencils. At the school gate, he gave away 4 pencils from 1 box. Which number sentence below can be used to find the total number of pencils that were left with him?
- $4 \times 6 + 2$
 - $4 \times 6 - 4$
 - $3 \times 6 + 4$
 - $3 \times 6 - 2$
28. A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, then how many did he solve correctly?
- 12
 - 16
 - 18
 - 24
29. The picture below shows bus routes and ticket prices between 6 towns. What is the least amount of money to pay for the tickets to get from town A to town B?
-
- A to first intermediate town: 20
 First intermediate town to second intermediate town: 10
 Second intermediate town to third intermediate town: 60
 Third intermediate town to fourth intermediate town: 30
 Fourth intermediate town to B: 70
 A to fourth intermediate town: 80
- a. ₹90 b. ₹100
 c. ₹110 d. ₹180
30. What is the smallest number of ducks that could swim in the formation: two ducks in front of a duck, two ducks behind a duck and a duck between two ducks?
- 3
 - 5
 - 7
 - 9

Darken your choice with HB pencil

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

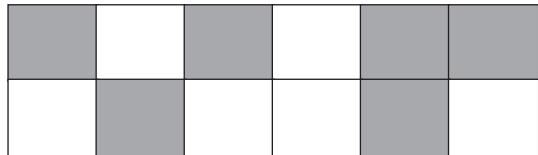
SECTION - A : MATHEMATICAL REASONING

1. What fraction of the large square is red?
 What fraction of the large square is green?
 What fraction of the large square is yellow?



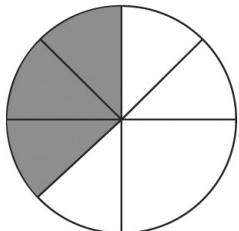
- (a) $\frac{11}{32}, \frac{3}{32}, \frac{3}{16}$ (b) $\frac{1}{4}, \frac{3}{16}, \frac{1}{16}$
- (c) $\frac{1}{16}, \frac{1}{4}, \frac{3}{16}$ (d) $\frac{3}{10}, \frac{1}{16}, \frac{1}{4}$
2. Which two colour combination of squares is $\frac{3}{16}$ of the large square?
- Green and red
 - Blue and red
 - Yellow and Blue
 - Yellow and green
3. How many minutes are there in $\frac{3}{5}$ of an hour?
- Question does not provide sufficient data or is vague.
 - 36 min
 - 45 min
 - 12 min

4. What fraction is represented by dark-coloured squares in the shape given below?



- a. $\frac{1}{2}$
 b. $\frac{12}{24}$
 c. All of above
 d. None of the above
5. In a park, Raju jumped $4\frac{5}{14}$ feet and Neetu jumped $2\frac{1}{7}$ feet. How much farther did Raju jump than Neetu?
- $2\frac{3}{14}$ feet
 - $1\frac{1}{14}$ feet
 - $\frac{3}{14}$ feet
 - $2\frac{1}{14}$ feet
6. Moni takes $1\frac{1}{3}$ hour to walk to the ground and $\frac{2}{3}$ hour to walk from the ground to home. How much time does it take her to walk to the ground and then to her home?
- 10 min
 - 20 min
 - 1 hr 40 min
 - 1 hr 20 min

7. What fraction of the circle shown here is shaded?



- a. $\frac{1}{3}$ b. $\frac{3}{3}$
c. $\frac{1}{2}$ d. 1
8. $\frac{2}{7} + \frac{7}{4} =$
 $\frac{8}{28} + \frac{49}{28} =$
 $\frac{57}{28}$
- a. $\frac{13}{28}$ b. $\frac{25}{28}$
c. $\frac{14}{28}$ d. $\frac{7}{28}$
9. Bittu ate $2\frac{1}{3}$ pizza and Rahul ate $2\frac{1}{4}$ pizza.
How much more pizza did Bittu ate?
a. $\frac{3}{12}$ b. $\frac{1}{12}$
c. $\frac{2}{12}$ d. $\frac{1}{7}$
10. Mayank bought a pizza. He gave $\frac{1}{8}$ of the pizza to each of his 4 friends and $\frac{1}{2}$ of the rest to his mother. What fraction of the pizza is left with him?
a. $\frac{3}{8}$ b. $\frac{3}{4}$
c. $\frac{1}{8}$ d. $\frac{1}{4}$
11. Which of the following is in ascending order according to the place value of 2?
A. 87.234 B. 371.132
C. 18.128 D. 2.168
a. B, A, C, D b. D, C, A, B
c. C, D, A, B d. B, C, A, D

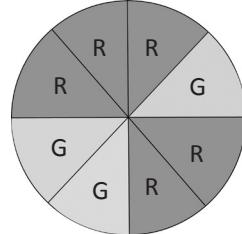
12. The sum of 2.530 kg, 8 kg 20 g and 5.3 kg is

- a. 15.085 kg b. 15.850 g
c. 15.850 kg d. 15 kg 85 g

13. Joy threw a ball. It reaches $3\frac{9}{18}$ feet from the ground to the 3rd floor of a building. Megha threw the same ball to the same building from 3rd floor to the 8th floor. How much distance is covered by the ball from 3rd floor to the 8th floor if she threw the ball with the same speed?

- a. $7\frac{9}{18}$ feet b. $17\frac{9}{18}$ feet
c. $5\frac{9}{18}$ feet d. $21\frac{9}{18}$ feet

14. In the given circle, $\frac{5}{8}$ of the sections are red. Which of the following is equal to $\frac{5}{8}$?



- a. $\frac{\text{Green}}{\text{Total}}$ b. $\frac{\text{Red}}{\text{Total}}$
c. $\frac{\text{Total}}{\text{Total}}$ d. None of these

15. What fractions are in order from the least to the greatest?

- a. $\frac{2}{3}, \frac{1}{2}, \frac{1}{3}$ b. $\frac{1}{4}, \frac{1}{3}, \frac{3}{4}$
c. $\frac{3}{2}, \frac{4}{3}, \frac{1}{2}$ d. $\frac{1}{4}, \frac{1}{3}, \frac{1}{5}$

16. The missing value in the given number sentence is

$$2.25 \div 5 \times 1\frac{1}{3} - (0.2 \times 0.3) = \underline{\hspace{1cm}} \times \frac{1}{4}$$

- a. 0.23 d. 2.56
c. 1.11 d. 2.16

17. Half of a number is 9. What is $\frac{3}{5}$ of the same number?

a. 5 b. $3\frac{1}{3}$

c. $1\frac{4}{5}$ d. $10\frac{4}{5}$

18. Which fraction is equal to 6.25?

a. $6\frac{1}{2}$ b. $6\frac{1}{4}$

c. $\frac{26}{4}$ d. 6

19. When the sum of 3.6 and 0.75 is divided by 5, the quotient is

a. 14.25 b. 4.35

c. 0.87 d. 0.72

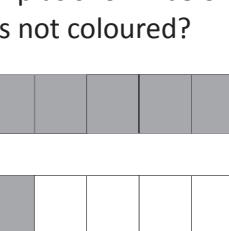
20. I think of a decimal number. I have subtracted 2.9 from it and then divided by 0.8. Now, if I add 0.6, I get 8.6. What is the decimal number?

a. 18 b. 4.5

c. 6.04 d. 9.3

SECTION - B : EVERYDAY MATHS

21. Tina wants to represent a mixed number using a rectangular strips. She coloured the strip as shown below. What part of the strip is not coloured?



A. $1\frac{2}{6}$ B. $1\frac{1}{3}$
C. $\frac{2}{3}$ D. None of these

22. Rohit packed $3\frac{1}{8}$ kg of flour each into 48 packets, and then he put 48 packets into 5 big boxes. The weight of one box is
a. 25 kg b. 125 kg
c. 150 kg d. 30 kg

23. Meetu spent ₹160 from its total pocket money and saves $\frac{5}{8}$ from the rest of the money. If she has ₹20 left with her, then how much of the total money does she have in the beginning?
a. ₹180 b. ₹360
c. ₹190 d. ₹192

24. Ritu have to multiply 39.86 and 3. Instead, she multiplied 3.986 and 3. What is the difference between the two answers?
a. 1.07622 b. 107.622
c. 1076.22 d. 10.7622

25. Rohit takes $\frac{1}{2}$ an hour to walk to the playground and $\frac{1}{3}$ hour to walk from the playground to home. Then he took $\frac{1}{6}$ hour to walk from home to the school. How much time does it take for him to walk from the playground to home and then from home to the school?
a. 1 hr b. $\frac{1}{2}$ an hr
c. Both a. and b. d. None of these

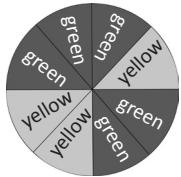
SECTION - C : BRAINBOX

26. Rahul has 32 blue coloured marbles, 16 red coloured marbles and some green coloured marbles. The number of green coloured marbles is $\frac{1}{3}$ of the sum of the number of blue and red coloured marbles. If he gave $\frac{3}{4}$ of green coloured marbles to his friends, then how many marbles is

27. When 83.52 is divided by the difference of 84 tenths and 120 hundredths, we get

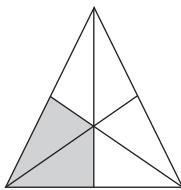
 - a. 2.32
 - b. 11.6
 - c. 8.24
 - d. 6.20

28. What fraction will it give when yellow shaded portion is subtracted from the green shaded portion?



- a. $\frac{1}{4}$ b. $\frac{3}{8}$
c. $\frac{5}{8}$ d. 1

29. What fraction of the given figure is not shaded?



- a. $\frac{2}{6}$

b. $\frac{1}{6}$

c. $\frac{2}{3}$

d. All of the above

30. Which of the following expressions is true?

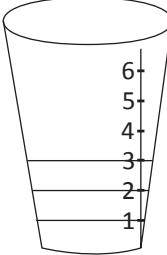
 - a. $1.3749 > 1.399$
 - b. $1.7908 < 1.879$
 - c. $1.526 < 1.2605$
 - d. $1.463 < 1.3902$

Darken your choice with HB pencil –

- | | | | | | | | | | | | | | | | | | | | |
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SECTION - A : MATHEMATICAL REASONING

1. Raman is 138 cm tall and Suraj is 16 cm shorter than Raman. How tall is Suraj?
 - a. 122 cm
 - b. 130 cm
 - c. 125 cm
 - d. 120 cm

2. How much water should be added to increase the given quantity to 6 litres?
 - a. 3 litres
 - b. 5 litres
 - c. 2 litres
 - d. 4 litres

3. 4000 times of 2 meter =
 - a. 8 hectometer
 - b. 8 decameter
 - c. 800 centimeters
 - d. 8 kilometre

4. 5 years 3 months =
 - a. 63 months
 - b. 75 months
 - c. 54 months
 - d. 46 months

5. What is the unit of measuring temperature of an object?
 - a. Fahrenheit
 - b. Celsius
 - c. Kelvin
 - d. All of the above

6. Radha pours 2 L 250 mL of juice equally into 9 glasses. How much juice is there in each glass?
 - a. 150 mL
 - b. 250 mL
 - c. 300 mL
 - d. 600 mL

7. How many ₹40 will make ₹1000?
 - a. 45
 - b. 35
 - c. 25
 - d. 15

The given table shows the time schedule of the arrival and departure time of train at different destinations along its route. Study the table and answer Q8 to Q10.

| Destination | Arrival | Departure |
|--------------|---------|-----------|
| Central | _____ | 8:30 |
| Toy town | 09:20 | 09:35 |
| Cherry park | 12:05 | 12:15 |
| Saint ville | 13:00 | 14:00 |
| Blue lake | 16:10 | 16:25 |
| Alpha street | 18:00 | _____ |

8. How long does it take to travel from Cherry park to Blue lake?
 - a. 1 hr 45 min
 - b. 3 hrs 25 min
 - c. 2 hrs 45 min
 - d. 3 hrs 55 min

9. What is the time duration between arrival and departure time of Saint ville?
 - a. 1 hr 15 min
 - b. 1 hr
 - c. 1 hr 10 min
 - d. 30 min

10. What is the arrival time of Alpha street according to 12-hour clock?
 - a. 04:25 p.m.
 - b. 6:00 a.m.
 - c. 06:00 p.m.
 - d. 18:00 a.m.

11. Water freezes at 0 °C which is same as
 - a. 32 °F
 - b. 32 °C
 - c. 35 °F
 - d. 25 °F

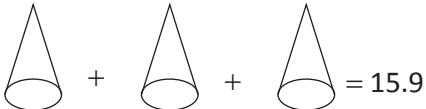
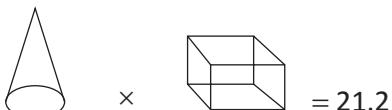
12. $3\frac{4}{5}$ hours = _____ minutes.
- 228
 - 282
 - 2
 - None of these
13. Which of these measurements best describe the weight of one orange?
- Kilograms
 - Litres
 - Grams
 - Centimetres
14. At breakfast, the temperature outside is 46°C . At lunch time, it had gone up by 3°C and then by dinner time it had gone down by 6°C . What was the temperature at dinner time?
- 34°C
 - 40°C
 - 43°C
 - None of these
15. Which unit would you use to measure the size of a chair?
- Inches
 - Centimetres
 - Meters
 - All the above
16. If 10 litres of milk cost ₹120, then what is the cost of 4 litres of milk?
- ₹50
 - ₹48
 - ₹12
 - ₹60
17. Vineet is $\frac{1}{3}$ m shorter than Kholi. If Vineet is $2\frac{1}{3}$ m tall, then how tall is Kholi?
- $2\frac{1}{3}$ m
 - 2 m
 - $2\frac{2}{3}$ m
 - $2\frac{3}{2}$ m
18. What is the mass of 10 such circles?
-
- a. 80 g
b. 40 g
c. 100 g
d. 60 g

SECTION - B : EVERYDAY MATHS

21. Radhika had 12.34 m of ribbon. She cuts three smaller pieces each of lengths 0.25 m from it. How much meter of ribbon is left?
- 11.59 m
 - 1106 m
 - 100 m
 - 11.06 m
22. Mohit drove from Delhi to Chandigarh as per time shown in the clocks. For how long did he drive?
-
23. Richa had ₹150. She spends ₹55.60 on a radio set and ₹0.5 on a drink. How much money is she left with?
- ₹83.90
 - ₹100.93
 - ₹93.90
 - ₹56.10

24. Chinki can ride a bicycle from point A to point B and then return to point A in 10 minutes. If she took a stroll, in between for 20 minutes, then how much time did she take to come back?
- 10 min
 - 30 min
 - 40 min
 - 20 min
25. A shopkeeper mixed 1.2 kg almonds with 9.2 kg pistachios. He packed the mixture equally into 11 boxes. What is the weight of each box?
- 9.4 kg
 - 0.4 kg
 - 0.49 kg
 - 0.94 kg

SECTION - C : BRAINBOX

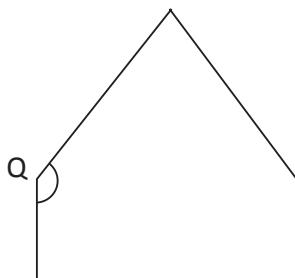
- 26.
- 
- $$\text{cone} + \text{cone} + \text{cone} = 15.9$$
-
- 
- $$\text{cone} \times \text{cube} = 21.2$$
-
- 
- $$\text{cube} \times \text{circle} = 1.5$$
- The value of $\text{circle} + \text{circle}$ is
- 0.375
 - 0.235
 - 0.1405
 - 0.75
27. Meera brought 8 kg ground nuts. She saved ₹160 by using a store coupon. How much did she save in per kg ground nuts?
- ₹15
 - ₹10
 - ₹18
 - ₹20
28. A tailor had a piece of cloth 12 m long. He cuts 4 smaller pieces of cloth from it. If each piece of cloth measures is $\frac{2}{3}$ m, then how much cloth is left?
- 9.33 m
 - 1 m
 - 0.933 m
 - 9.10 m
29. Aman is 2 years 5 months old. His sister, Anu is 2 years 10 months elder to him. How old is Anu?
- 4 years 10 months
 - 5 years 3 months
 - 5 years 5 months
 - 5 years 10 months
30. If 8th October is Sunday, then which day will it be on 8th November?
- Monday
 - Wednesday
 - Tuesday
 - Thursday

Darken your choice with HB pencil -

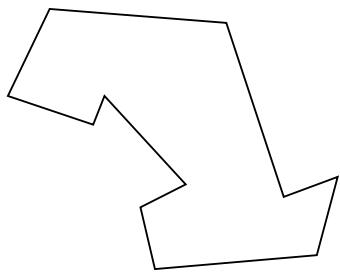
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| 4. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 12. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 20. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 28. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d |
| 5. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 13. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 21. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 29. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d |
| 6. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 14. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 22. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 30. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d |
| 7. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 15. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 23. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | | | | |
| 8. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 16. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | 24. <input type="radio"/> a | <input type="radio"/> b | <input type="radio"/> c | <input type="radio"/> d | | | | |

SECTION - A : MATHEMATICAL REASONING

1. What of the following angles best describe Q?

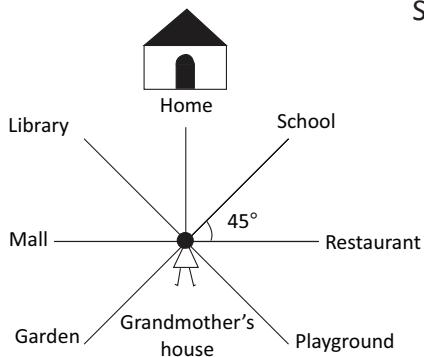
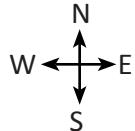


- a. Acute
 - b. Obtuse
 - c. Straight
 - d. Right
2. Study the given figure carefully. Which of the following statements is correct?



- a. The figure has 3 angles that are greater than a right angle.
- b. The figure has 4 right angles.
- c. The figure has 4 angles less than a right angle.
- d. The figure has sides more than the fourth multiple of 2.

Directions (Q3 to Q6): Ritu stands in the middle of her house. Study the given diagram to answer the following questions.



3. Ritu is facing North. If she turns 90° anticlockwise and from there 45° clockwise, then what will she be facing?
- a. School
 - b. Restaurant
 - c. Home
 - d. Library
4. Ritu is facing south. If she turns 135° anticlockwise, then what will she be facing?
- a. School
 - b. Play ground
 - c. Library
 - d. Grandmother's home
5. Ritu is facing North. If she turns 135° clockwise and then again 90° clockwise, then what will she be facing?
- a. School
 - b. Garden
 - c. Library
 - d. Mall

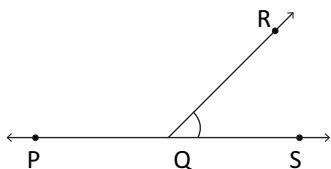
6. Ritu is in East side. If she turns 270° anticlockwise and then 180° clockwise, then what will she be facing?

- a. Library
- b. Home
- c. School
- d. Restaurant

7. Which angle has a measure that is smaller than a right angle?

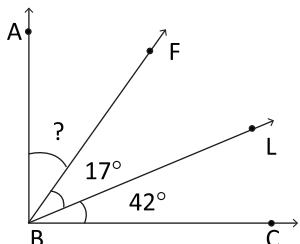
- a. Acute
- b. Obtuse
- c. Straight
- d. Reflex

8. Which of the following is not pictured in the diagram?



- a. Ray QS
- b. Angle Q
- c. Line segment RS
- d. Line PS

9. If $\angle ABC$ is a right angle, then $\angle ABF =$



- a. 13°
- b. 20°
- c. 23°
- d. 31°

10. An angle whose measure is 360° is called a

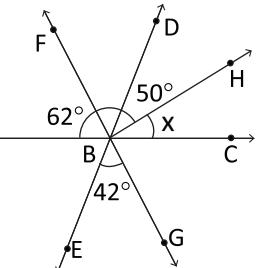
- a. reflex angle
- b. complete angle
- c. straight angle
- d. right angle

11. A flat surface that extends in all directions is called a

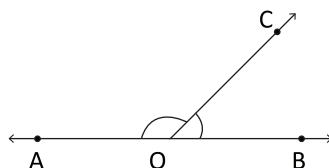
- a. line
- b. plane
- c. circle
- d. ray

12. The value of x is

- a. 42°
- b. 154°
- c. 26°
- d. 32°



13. In the given figure, OA and OB are opposite rays.

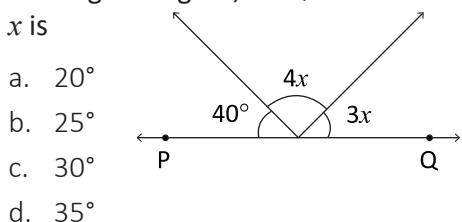


- (i) If $\angle BOC = 75^\circ$, then what will be the measure of $\angle AOC$?
 - (ii) If $\angle AOC = 110^\circ$, then what will be the measure of $\angle BOC$?
- a. $105^\circ, 70^\circ$
 - b. $70^\circ, 105^\circ$
 - c. $110^\circ, 70^\circ$
 - d. $70^\circ, 115^\circ$

14. If one of the angles of a triangle is 130° , then the angles between the bisectors of the other two angles is

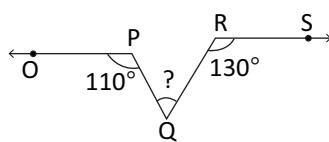
- a. 50°
- b. 155°
- c. 145°
- d. 65°

15. In the given figure, POQ is a line. The value x is



- a. 20°
- b. 25°
- c. 30°
- d. 35°

16. In the given figure if $OP \parallel RS$, $\angle OPQ = 110^\circ$ and $\angle QRS = 130^\circ$, then $\angle PQR$ is equal to



- a. 40°
- b. 50°
- c. 60°
- d. 70°

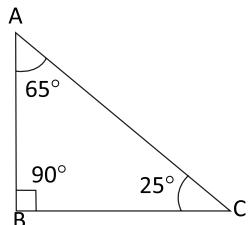
17. The angles of a triangle are in the ratio $2 : 4 : 3$. The smaller angle of the triangle is

- a. 60°
- b. 20°
- c. 40°
- d. 80°

18. If one angle of a triangle is equal to the sum of the other two angles then the triangle is a/an

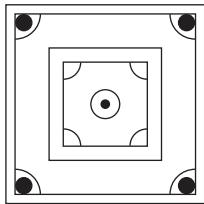
- a. isosceles triangle
- b. obtuse angled triangle
- c. equilateral triangle
- d. right angled triangle

21. If the sum of the measures of two angles in a triangle is 90° , then the angles are complementary. So, in triangle ABC,
 $m \angle C = 25^\circ$,
 $m \angle A = 65^\circ$,
 $m \angle B = 90^\circ$. Which of the following conclusions follows directly from the previous statements?



- a. $\angle B$ is a complementary angle
- b. $\angle A$ and $\angle C$ are complementary angles
- c. $\angle B$ and $\angle C$ are complementary angles
- d. $\angle A$ and $\angle B$ are complementary angles

22. In a carrom board, each angle shown below is equal to



- a. right angle
- b. straight angle
- c. reflex angle
- d. complete angle

19 An exterior angle of a triangle is 105° and its two interior opposite angles are equal. Each of these equal angles are

- a. $32\frac{1}{2}^\circ$
- b. $72\frac{1}{2}^\circ$
- c. 75°
- d. $52\frac{1}{2}^\circ$

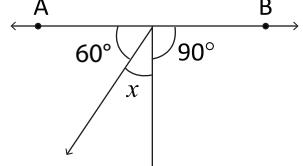
20. The angles of a triangle are in the ratio $5 : 3 : 7$. The triangle is a/an

- a. acute angled triangle
- b. obtuse angled triangle
- c. right angled triangle
- d. isosceles triangle

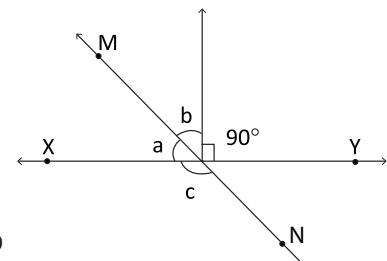
SECTION - B : EVERYDAY MATHS

23. In the given figure, the value of x is

- a. 120°
- b. 80°
- c. 90°
- d. 30°

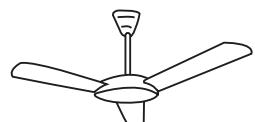


24. If line XY and MN intersects as shown and $a : b = 3 : 2$ then the measure of angles a and b are



- a. $36^\circ, 54^\circ$
- b. $36^\circ, 90^\circ$
- c. $54^\circ, 80^\circ$
- d. $54^\circ, 36^\circ$

25. A ceiling fan rotates at an angle of 75° and then stops suddenly. How many more degrees does it need to rotate in order to make a full rotation?



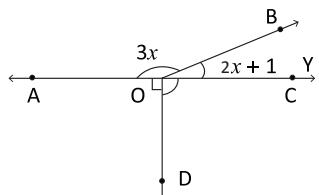
- a. 175°
- b. 25°
- c. 26°
- d. 285°

SECTION - C : BRAINBOX

26. Two adjacent angles lie on a straight line.
If one of these is 160° , then the other angle is

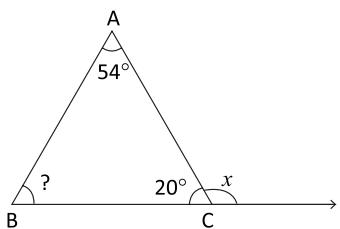
- a. 0°
- b. 90°
- c. 120°
- d. 20°

27. The value of x is



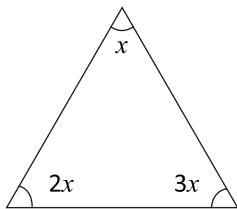
- a. 90°
- b. 30°
- c. $\frac{4}{5}$
- d. 34°

28. In the figure given below, the value of x and $\angle ABC$ is



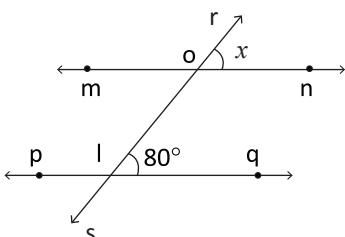
- a. $106^\circ, 160^\circ$
- b. $160^\circ, 106^\circ$
- c. $90^\circ, 120^\circ$
- d. $106^\circ, 20^\circ$

29. If all the three angles in a triangle are given as shown below, then the value of x is



- a. 20°
- b. 90°
- c. 30°
- d. 120°

30. In the given figure, the value of x is



- a. 80°
- b. 100°
- c. 20°
- d. 90°

Darken your choice with HB pencil

1. a b c d
2. a b c d
3. a b c d
4. a b c d
5. a b c d
6. a b c d
7. a b c d
8. a b c d

9. a b c d
10. a b c d
11. a b c d
12. a b c d
13. a b c d
14. a b c d
15. a b c d
16. a b c d

17. a b c d
18. a b c d
19. a b c d
20. a b c d
21. a b c d
22. a b c d
23. a b c d
24. a b c d

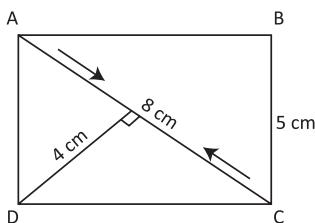
25. a b c d
26. a b c d
27. a b c d
28. a b c d
29. a b c d
30. a b c d

SECTION - A : MATHEMATICAL REASONING

1. An athlete runs a race of 200 m around a rectangular field whose length is 30 m and breadth is 20 m. How many times does the athlete run around the field?

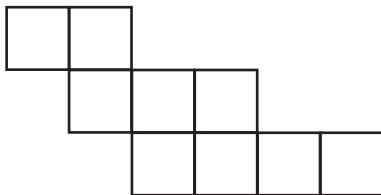
- a. 3 times b. 2 times
c. 4 times d. 5 times

2. If ABCD is a rectangle, then the area of the rectangle is



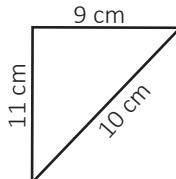
- a. 40 cm^2 b. 60 cm^2
c. 32 cm^2 d. 20 cm^2

3. What is the area of the given figure?



- a. 10 sq. units b. 9 sq. units
c. 7 sq. units d. 11 sq. units

4. The perimeter of the square is twice the perimeter of the triangle. What is the length of the side of the square?

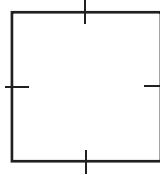


- a. 15 cm b. 7.5 cm
c. 60 cm d. 30 cm

5. What is the perimeter of an equilateral triangle of side 20 cm?

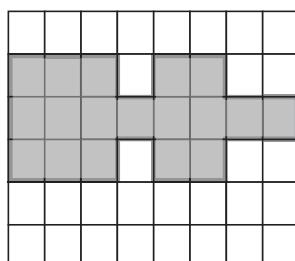
- a. 80 cm b. 60 cm
c. 400 cm d. 40 cm

6. The square and the rectangle have the same perimeter. The length of the rectangle is

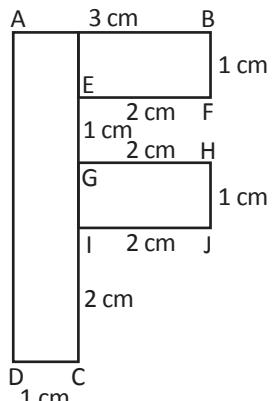


- a. 16 cm b. 17 cm
c. 15 cm d. 19 cm

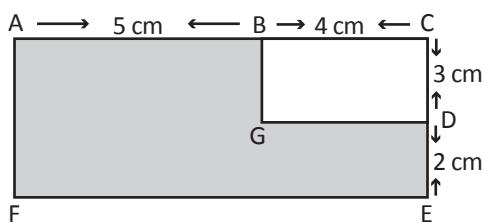
7. The given figure is made up of identical squares. Some part of it is shaded. If each side of the unit square is $\frac{1}{2}$ cm, then the area of the shaded region is



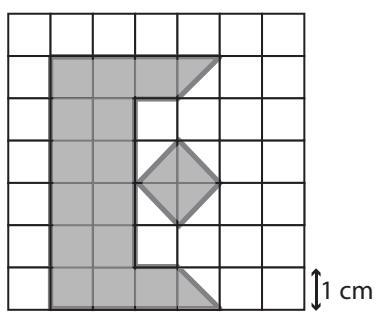
- a. 9 cm^2
 b. 18 cm^2
 c. 4.5 cm^2
 d. 7 cm^2
8. In the given figure, $BF = EG = HJ = DC = 1 \text{ cm}$, $AB = 3 \text{ cm}$ and $EF = GH = IJ = 2 \text{ cm}$. The perimeter of the given figure (in cm) is



- a. 20
 b. 34
 c. 45
 d. 60
9. The figure shows a small rectangle $BCDG$ and a big rectangle $ACEF$. The area of the shaded part of the figure is

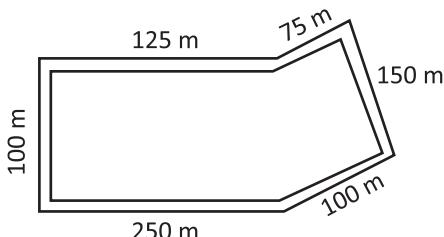


- a. 36 cm^2
 b. 33 cm^2
 c. 40 cm^2
 d. 45 cm^2
10. What is the area of the shaded figure?



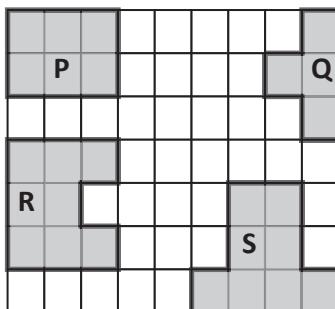
- a. 26 cm^2
 b. 17 cm^2
 c. 12 cm^2
 d. 21 cm^2

11. The perimeter of the given figure is



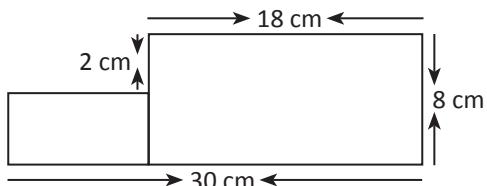
- a. 420 m
 b. 800 m
 c. 720 m
 d. 600 m

12. The length of a rectangle is twice its breadth. If the perimeter of the rectangle is 24 cm, then its length is
- a. 10 cm
 b. 8 cm
 c. 6 cm
 d. 12 cm
13. Which shape in the given grid has the smallest area?



- a. P
 b. Q
 c. R
 d. S

14. The given figure is made up of two rectangles. Its total area is

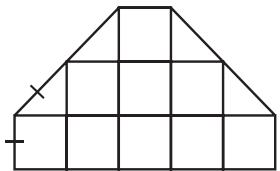


- a. 144 cm^2
- b. 216 cm^2
- c. 240 cm^2
- d. 300 cm^2

15. The perimeter of a rectangular picture is 200 cm . If it is 40 cm wide, then how long is it?

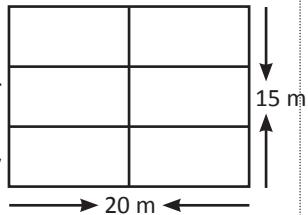
- a. $4\frac{1}{3} \text{ cm}$
- b. 60 cm
- c. 100 cm
- d. 130 cm

16. The figure given below is made up of nine similar squares and four triangles. The area of each square is 12 cm^2 . What is the area of the given figure?



- a. 130 cm^2
- b. 132 cm^2
- c. 100 cm^2
- d. 140 cm^2

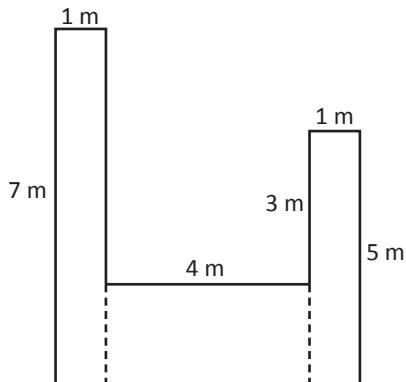
17. The given figure shows a rectangular garden with dimensions 15 m by 20 m . The garden



- has six identical flower beds. What is the perimeter of a single flower bed?

- a. 28 m
- b. 30 m
- c. 32 m
- d. 24 m

18. Ritika created a floor plan for her house as shown below. The area of the house is



- a. 20 m^2
- b. 90 m^2
- c. 100 m^2
- d. 23 m^2

19. If a regular hexagon has a perimeter 24 cm , then the length of its side is

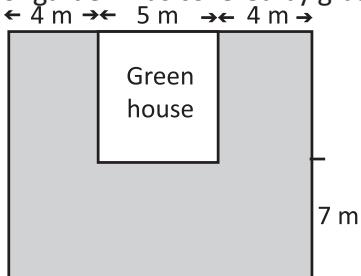
- a. 3 cm
- b. 4 cm
- c. 6 cm
- d. 8 cm

20. A playground of length 250 m and breadth 20 m is to be fenced with wire. What length of the wire is needed?

- a. 230 m
- b. 270 m
- c. 440 m
- d. 540 m

SECTION - B : EVERYDAY MATHS

21. Mr Pinto had a square garden. He built a rectangular greenhouse in the garden and planted grass in the remaining area. What area of garden was covered by grass?

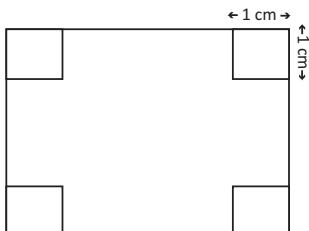


- a. 140 m^2 b. 135 m^2
c. 139 m^2 d. 150 m^2

22. Anuradha wants to purchase a curtain of window for her study room. She measures its length as 1.3 m and breadth as 1 m. How much cloth will she purchase?

- a. 130 m b. 140 m
c. 1.3 m d. 13 m

23. A square of side 4 cm is given below. Four squares of side 1 cm is cut from its four corners. The perimeter of the remaining figure is



- a. 16 cm b. 14 cm
c. 26 cm d. 12 cm

24. A wire of length 60 cm is bent to form a square. The area of square so formed is

- a. 3600 cm^2 b. 1200 cm^2
c. 225 cm^2 d. 400 cm^2

25. Jamila is decorating a rectangular lampshade of cross-section $32 \text{ cm} \times 35 \text{ cm}$. She wants to put some beading around the edge. What length of beading does she need?

- a. 135 cm b. 134 cm
c. 1120 cm d. 1020 cm

26. Rita has made a square cake of length 22 cm. What will be the length of ribbon she would need to put around its boundary?



- a. 44 cm b. 66 cm
c. 88 cm d. 22 cm

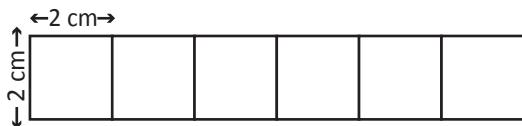
27. If it costs ₹1600 to fence around a rectangular park of length 20 m at the rate of ₹25 per m. The breadth of the park is

- a. 13 cm b. 12 cm
c. 14 cm d. 15 cm

28. If the length of a rectangle is doubled and the breadth becomes one-fourth, then the area of the new rectangle becomes _____ the original.

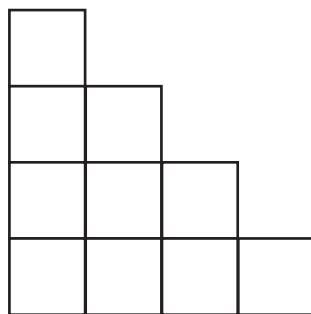
- a. twice b. thrice
c. half d. four times

29. Six squares, each of whose side is 2 cm, are connected end to end as shown in the given figure. The perimeter of the figure so formed is



- a. 24 cm
- b. 36 cm
- c. 28 cm
- d. 14 cm

30. The given figure is made up of 10 squares of the same size. The area of the given figure is 40 cm^2 . The perimeter of the given figure is



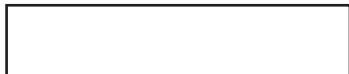
- a. 32 cm
- b. 28 cm
- c. 24 cm
- d. 36 cm

-
- Darken your choice with HB pencil
- | | | | |
|--|---|---|---|
| 1. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 9. <input type="radio"/> a <input checked="" type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 17. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 25. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 2. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 10. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 18. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 26. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 3. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 11. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 19. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 27. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 4. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 12. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 20. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 28. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 5. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 13. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 21. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 29. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 6. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 14. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 22. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 30. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d |
| 7. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 15. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 23. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | |
| 8. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 16. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | 24. <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c <input type="radio"/> d | |

SECTION - A : MATHEMATICAL REASONING

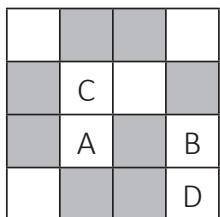
ENVIRONMENT

8. How many lines of symmetry are there in the given figure?



- a. 2 b. 4
c. 1 d. 3

9. Which square must be shaded such that the given figure has a line of symmetry?



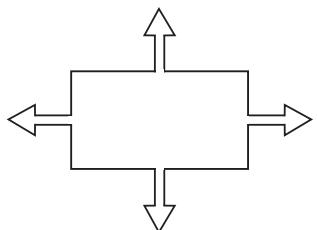
- a. A b. C
c. B d. Both A and B

10. Which of the following figures have the maximum lines of symmetry?



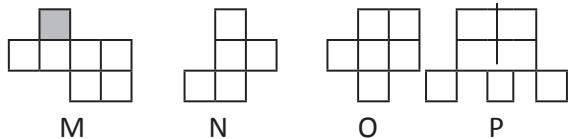
- a. Figure 1 b. Figure 3
c. Figure 2 d. Figure 4

11. How many lines of symmetry does the given figure have?



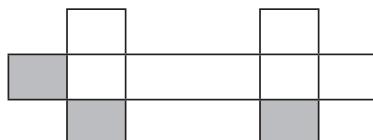
- a. 2 b. 3
c. 4 d. 1

12. Which of the following figures have a line of symmetry?



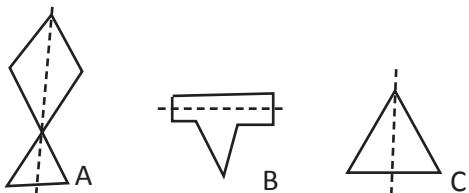
- a. Figure M b. Figure N
c. Figure O d. Figure P

13. The minimum number of squares that must be shaded in the given figure such that the given figure has a line of symmetry is



- a. 1 b. 2
c. 3 d. 4

14. Which of the following figures has the line of symmetry not drawn correctly?



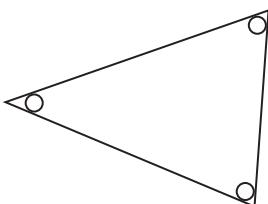
- a. Figure A b. Figure B
c. Figure C d. None of these

15. Which of the following is the mirror image of the given word?

APPLE

- a. APPLE b. APPLE
c. A萍E d. A萍E

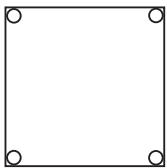
16. How many lines of symmetry are there in the given figure?



- a. 1 b. 2
c. 3 d. 0

17. An object is said to be symmetrical if
- it can divide into two or more identical pieces.
 - it can divide into multiple pieces.
 - it cannot divide.
 - None of the above.

18. How many lines of symmetry are there in the figure given below?



- 1
- 2
- 4
- 3

19. The number of lines of symmetry in a square is

- 2
- 3
- 4
- 6

20. Which symmetrical line is used for the given figure as the line of symmetry?



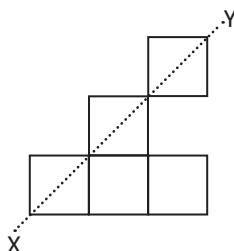
-
-
-
- Both a and b

21. How many letters of the English alphabet in the given word have both Horizontal and vertical line of symmetry?

CHEMISTRY

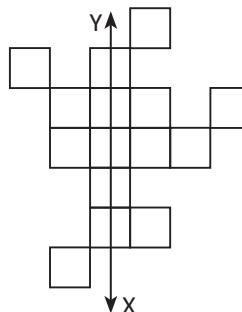
- 7
- 4
- 8
- 2

22. What is the least number of squares that must be added so that the line XY becomes a line of symmetry?



- 1
- 2
- 3
- 4

23. What is the smallest number of squares that must be added so that the line XY becomes a line of symmetry?



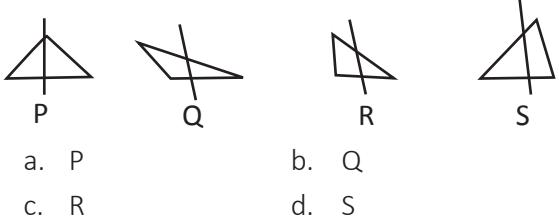
- 4
- 3
- 6
- 5

24. How many lines of symmetry are there in a pizza?



- 4
- 2
- 1
- Infinite

25. Which of the following figures is symmetrical?



- P
- Q
- R
- S

SECTION - B : BRAINBOX

26. Which of the following figures, is not symmetric with respect to any line?



M



N



O



P

- a. M b. N
c. O d. P

27. The number of lines of symmetry in a scalene triangle is

- a. 0 b. 1
c. 2 d. 3

28. Which of the following letters of the English alphabet does not have the vertical line of symmetry?

- a. M b. E
c. H d. V

29. Which of the following letters of the English alphabet does not have any line of symmetry?

- a. M b. E
c. S d. K

30. Which of the following letters of the English alphabet have only one line of symmetry?

- a. H b. Y
c. X d. I

Darken your choice with HB pencil

1. a b c d

2. a b c d

3. a b c d

4. a b c d

5. a b c d

6. a b c d

7. a b c d

8. a b c d

9. a b c d

10. a b c d

11. a b c d

12. a b c d

13. a b c d

14. a b c d

15. a b c d

16. a b c d

17. a b c d

18. a b c d

19. a b c d

20. a b c d

21. a b c d

22. a b c d

23. a b c d

24. a b c d

25. a b c d

26. a b c d

27. a b c d

28. a b c d

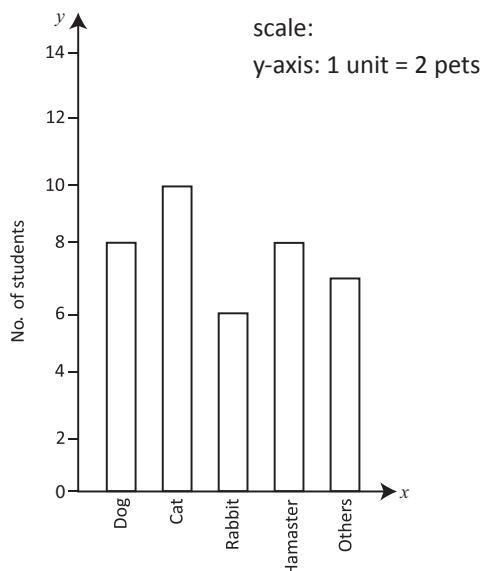
29. a b c d

30. a b c d

SECTION - A : MATHEMATICAL REASONING

Directions (Q1 to Q3): Use the given bar graph to answer the following questions.

Pets owned by students of class V



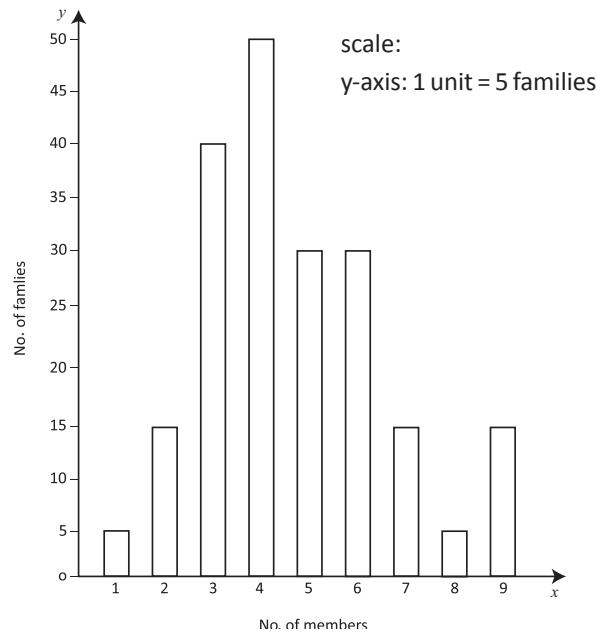
1. Which is the most popular pet?
 - a. Dog
 - b. Hamster
 - c. Cat
 - d. Rabbit

2. What is the total number of pets owned by the students?
 - a. 38
 - b. 32
 - c. 39
 - d. 40

3. How many students have dog as a pet?
 - a. 10
 - b. 8
 - c. 9
 - d. 7

Directions (Q4 to Q6): Read the bar graph given below to answer the following questions.

No. of families with different members.



4. How many families have only 3 members?
 - a. 30
 - b. 35
 - c. 40
 - d. 50

5. How many families have 8 or 9 members?
 - a. 10
 - b. 20
 - c. 15
 - d. 30

6. How many members does the maximum number of families have?
- 6
 - 5
 - 9
 - 4

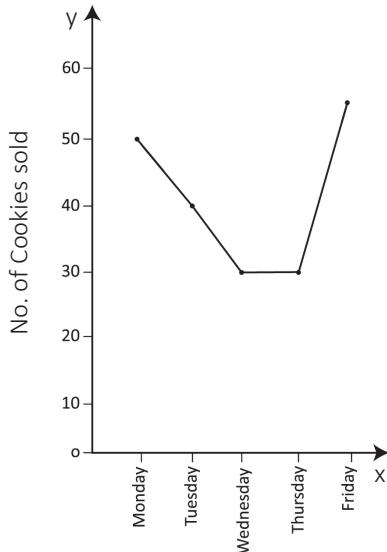
Directions (Q7 to Q10): The total number of cars produced by a factory in the last 6 years is shown below. (1 \square = 500 cars)

| | | | | | |
|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1989 | <input type="checkbox"/> |
| 1990 | <input type="checkbox"/> |
| 1991 | <input type="checkbox"/> |
| 1992 | <input type="checkbox"/> |
| 1993 | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 1994 | <input type="checkbox"/> |

Scale: 1 \square = 500 cars

7. In which year was the production minimum?
- 1989
 - 1994
 - 1993
 - 1990
8. What was the production of cars in 1991?
- 2000
 - 3000
 - 2500
 - 3500
9. How much was the increase in production from 1993 to 1994?
- 1000
 - 5000
 - 4000
 - 6000
10. In which years was the production of cars equal?
- 1989, 1990
 - 1990, 1991
 - 1991, 1992
 - 1989, 1992

Directions (Q11 to Q14): Study the graph given below and answer the following questions.



11. How many cookies were sold on Thursday and Tuesday?
- 30
 - 50
 - 10
 - 20
12. The difference between the greatest number of cookies and the least number of cookies sold is
- 25
 - 55
 - 45
 - 35
13. If a profit of ₹15 was made for every cookie sold, then how much profit was made on Tuesday?
- ₹480
 - ₹400
 - ₹450
 - ₹350
14. How many cookies were sold on Monday and Friday?
- 110
 - 50
 - 55
 - 105

Directions (Q15 to Q17): A school library has different books as shown below. Study it carefully and answer the following questions.

| | |
|-----------------------|------------------------|
| Maths | ◇ ◇ ◇ ◇ ◇ ◇ ◇ |
| Science | ◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇ |
| Hindi | ◇ ◇ ◇ ◇ ◇ ◇ |
| English | ◇ ◇ ◇ ◇ ◇ ◇ ◇ ◇ |
| History | ◇ ◇ ◇ |
| Scale: 1 ◇ = 60 books | |

15. Which subject has the maximum number of books?

- a. English
- b. Hindi
- c. Maths
- d. Science

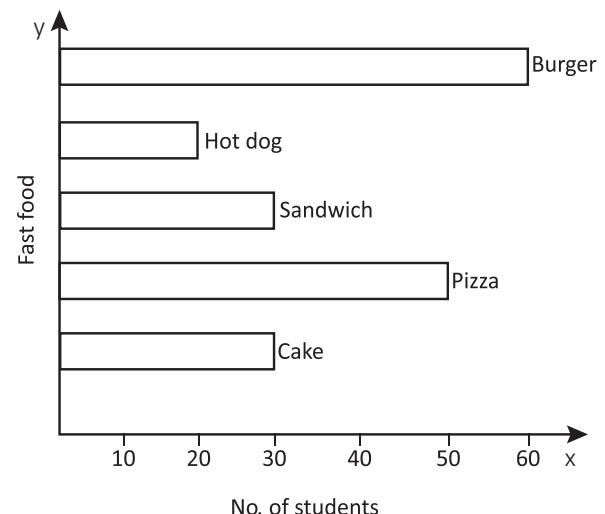
16 How many English books are there in the library?

- a. 360
- b. 460
- c. 420
- d. 480

17. How many total number of books are there in the library?

- a. 94
- b. 2040
- c. 3040
- d. 1824

Directions (Q18 to Q20): The bar graph shows the favourite fast food of some students of a locality. Study it and answer the following questions.



18. Which is the most favourite food?

- a. Pizza
- b. Sandwich
- c. Burger
- d. Cake

19. How many students gave their choices?

- a. 170
- b. 190
- c. 180
- d. 160

20 Which two fast foods are equally liked by the students?

- a. Pizza and Burger
- b. Cake and Hot dog
- c. Sandwich and Cake
- d. Pizza and Sandwich

SECTION - B : EVERYDAY MATHS

Directions (Q21 to Q23): Ritu recorded the temperature of her city for seven days, which was as follows:

| Day | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|-------------|--------|---------|-----------|----------|--------|----------|--------|
| Temperature | 36 °C | 34 °C | 38 °C | 40 °C | 39 °C | 40 °C | 41 °C |

21. Which was the hottest day?
- a. Wednesday b. Thursday
 - c. Sunday d. Saturday
22. What is the difference between the highest and the lowest temperature?
- a. 34 °C b. 41 °C
 - c. 7 °C d. 4 °C
23. Which two days were equally hot?
- a. Wednesday and Thursday
 - b. Saturday and Sunday
 - c. Saturday and Thursday
 - d. Friday and Saturday

Directions (Q24 to Q25): The given pictograph shows the number of flowers plucked by Ritu, Gurpreet and Anju.

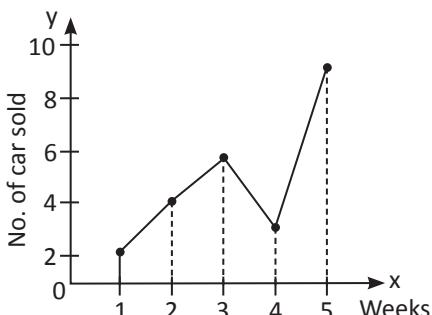
| Name | Number of flowers |
|----------|-------------------|
| Ritu | ❀ ❀ ❀ ❀ ❀ ❀ ❀ ❀ ❀ |
| Gurpreet | ❀ ❀ ❀ ❀ ❀ ❀ |
| Anju | ❀ ❀ ❀ ❀ ❀ ❀ ❀ ❀ |

Scale: ❀ → 4 flowers

24. Amongst the three, who plucked the least number of flowers?
- a. Ritu b. Gurpreet
 - c. Anju d. Ritu and Gurpreet
25. How many flowers are plucked in all?
- a. 90 b. 104
 - c. 94 d. 26

SECTION - C : BRAINBOX

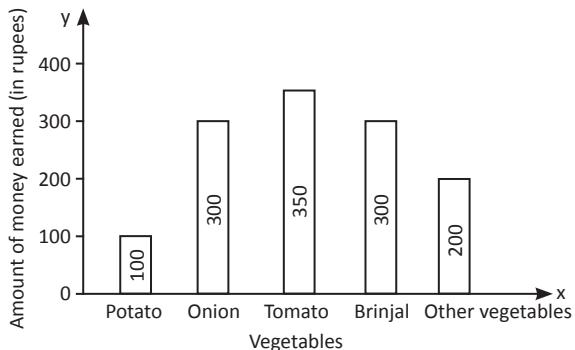
Directions (Q26 to Q28): The line graph shows the number of cars Rahul sold over the past 5 weeks.



26. If he was paid ₹30,000 for every car sold, then how much was he paid over the past 5 weeks?

- a. ₹6,30,000 b. ₹5,90,000
 - c. ₹7,00,000 d. ₹7,20,000
27. If he paid ₹25,000 for every car sold in the first 3 weeks and ₹20,000 for every car sold in the last 2 weeks, then how much did he pay over the past 5 weeks?
- a. ₹5,40,000 b. ₹2,75,000
 - c. ₹2,40,000 d. ₹7,50,000
28. How many more cars did he sell in the first four weeks than in the last week?
- a. 2 b. 6
 - c. 11 d. 13

Directions (Q29 to Q30): The bar graph shows the amount of money Vijay earned in a week by selling vegetables in his store.



29. If he earned 50 paisa for every onion sold, then how many onions did he sell?

- a. 600 b. 300 c. 1050 d. 900

30. If he earned 20 paisa for every tomato sold, then how many tomatoes did he sell?

- a. 1200 b. 1750 c. 1000 d. 1050

Darken your choice with HB pencil -

1. a b c d

2. a b c d

3. a b c d

4. a b c d

5. a b c d

6. a b c d

7. a b c d

8. a b c d

9. a b c d

10. a b c d

11. a b c d

12. a b c d

13. a b c d

14. a b c d

15. a b c d

16. a b c d

17. a b c d

18. a b c d

19. a b c d

20. a b c d

21. a b c d

22. a b c d

23. a b c d

24. a b c d

25. a b c d

26. a b c d

27. a b c d

28. a b c d

29. a b c d

30. a b c d

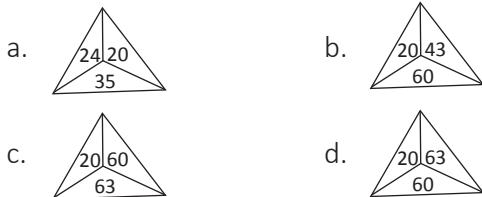
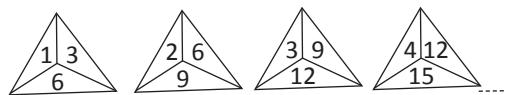
1. The difference of the sum of even numbers up to 30 and the sum of odd numbers less than 30 is

a. 11
b. 12
c. 15
d. None of these

2. A ice cream seller sold 10 ice cream bricks on Sunday, 15 ice cream bricks on Monday and 20 ice cream bricks on Tuesday and so on. How many ice cream bricks did he sell if he finishes it on the 8th day?

a. 220 b. 250
c. 150 d. 55

3. Which of the following will represent the 20th term?

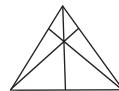


4. The missing numbers are

| | |
|----|----|
| 3 | 22 |
| 11 | 6 |
| 7 | 28 |
| 14 | 9 |
| 6 | A |
| 12 | B |

a. 24, 8
b. 7, 24
c. 24, 7
d. 27, 7

5. How many triangles are there altogether in the given figure?



a. 20 b. 16
c. 24 d. 12

Directions (Q6 to Q7): A farmer has chickens and rabbits which are 40 in total. If there are 112 legs, then

6. how many chickens are there?

a. 24 b. 16
c. 20 d. 64

7. how many rabbits are there?

a. 24 b. 16
c. 18 d. 48

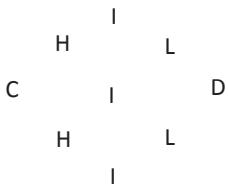
8. A ribbon is cut in to two halves. Each half is, then, cut in to two halves again. If the smallest piece of ribbon measures 30 cm, then how long was the ribbon?

a. 60 cm
b. 120 cm
c. 40 cm
d. 180 cm

9. In how many ways can you divide 15 marbles into 4 groups such that each group have different numbers of marbles?

a. 9 ways
b. 10 ways
c. 16 ways
d. 6 ways

10. In how many ways can you form the word "CHILD"?

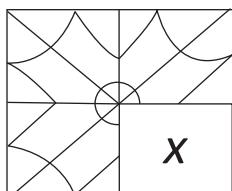


- a. 6 ways
- b. 4 ways
- c. 3 ways
- d. 9 ways

11. If $a^*b = a \times b - (a + b)$, then the value of 2^*5 is

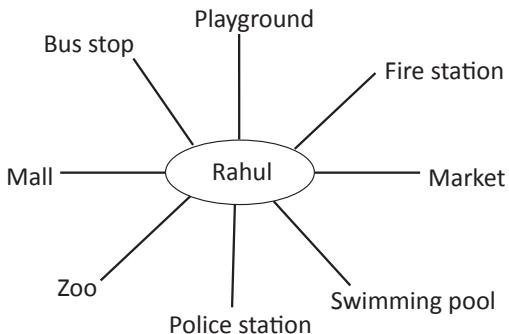
- a. 13
- b. 5
- c. 3
- d. 10

12. Which of the following figures will compute the part x?



- a.
- b.
- c.
- d.

13. If Rahul is facing the playground and he takes $\frac{3}{8}$ turns in anticlockwise direction, then in the end where would Rahul face?



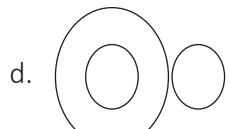
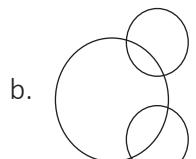
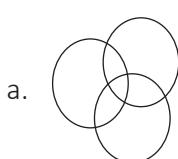
a. Market

b. Bus stop

c. Zoo

d. Police station

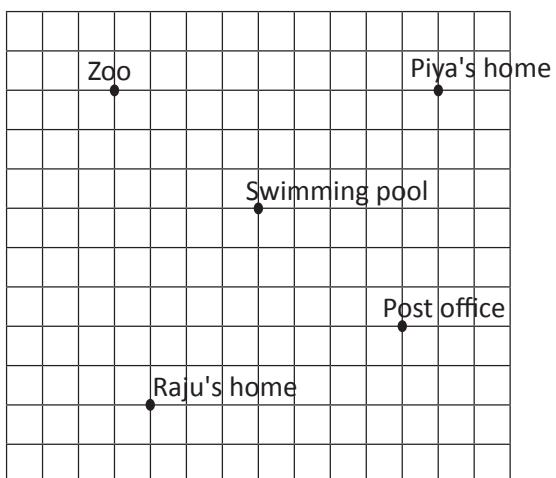
14. Which of the following best depicts the relationship amongst "Singer, doctor, teacher"?



15. Riya can run at a speed of 200 meter every minute. How far can she run in 5 minutes?

- a. 1 km
- b. 500 m
- c. 250 km
- d. 1000 km

16. On the given map, each side of each grid represent 2 km. How far is Raju's home from the post office than Piya's home? (consider the shortest distance)



a. Piya lives 2 km farther than Raju

b. Raju lives 4 km farther than Piya from post office

c. At the same distance

d. Can't determined

26. Rohan drank $\frac{5}{10}$ glass of juice. Ritu drank $\frac{1}{3}$ glass of juice. If the glasses held the same amount of juice, then how much more juice did Rohan drink than Ritu?

- a. $\frac{7}{6}$
- b. $\frac{1}{6}$
- c. $\frac{5}{6}$
- d. $\frac{1}{2}$

27. In a year, Suraj saves ₹10 every week and spends ₹3 at the end of every month. How much money will he have at the end of the year, if he donates ₹50 for underprivileged students?

- a. ₹458
- b. ₹470
- c. ₹520
- d. ₹517

28. The temperature of water in a swimming pool is 53 °F, since the freezing point of the water is 0 °C. How many degrees would the temperature of the water have to drop to reach the freezing point?

- a. 9 °F
- b. 21 °F
- c. 20 °F
- d. 19 °F

29. $\bigcirc + \bigcirc = \boxed{\text{ }} + \boxed{\text{ }} + \boxed{\text{ }}$
 $\boxed{\text{ }} + \boxed{\text{ }} + \boxed{\text{ }} = \boxed{\text{ }} + \boxed{\text{ }} + \boxed{\text{ }} + \boxed{\text{ }}$
 $\bigcirc + \boxed{\text{ }} + \boxed{\text{ }} + \boxed{\text{ }} = 32$
 $\bigcirc = ?, \boxed{\text{ }} = ?, \boxed{\text{ }} = ?$

- a. 6, 8, 12
- b. 8, 6, 12
- c. 12, 8, 6
- d. None of these

30. There are nine rows of rose buds in a garden. Each row has the same number of buds. If there are total of 153 buds, then how many buds are there in each row?

- a. 17
- b. 18
- c. 19
- d. 20

Darken your choice with HB pencil –

1. a b c d

2. a b c d

3. a b c d

4. a b c d

5. a b c d

6. a b c d

7. a b c d

8. a b c d

9. a b c d

10. a b c d

11. a b c d

12. a b c d

13. a b c d

14. a b c d

15. a b c d

16. a b c d

17. a b c d

18. a b c d

19. a b c d

20. a b c d

21. a b c d

22. a b c d

23. a b c d

24. a b c d

25. a b c d

26. a b c d

27. a b c d

28. a b c d

29. a b c d

30. a b c d

Answers

Chapter 1: Number Sense

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

Chapter 2: Operations on Numbers

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

Chapter 3: Fractions and Decimals

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

Chapter 4: Measurements

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

Chapter 5: Angles

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

Chapter 6: Perimeter and Area

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

Chapter 7: Symmetry

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

Chapter 8: Data Handling

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

Chapter 9: Logical Reasoning

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

My Notes