



MATHEMATICS

School Level Examination

GRADE

6

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- * All questions are compulsory.
- * Read the instructions on the **ANSWER SHEET** and fill in your **NAME, CLASS and OTHER INFORMATION**.

To mark your choice of answer by darkening the circles in the Answer Sheet, use an **HB Pencil** only.

- * You **MUST** record your answers on the **ANSWER SHEET**.
- * There are 40 **MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** answer among the four possible options.

On your **ANSWER SHEET** fill in the oval that matches your answer.

- * Marks are **NOT** deducted for incorrect answers.
- * Return the **Answer Sheet** to the invigilator at the end of the examination.
- * Write your Roll No. on the Question Paper too and take it home for future reference.
- * You are **NOT** allowed to use a calculator.

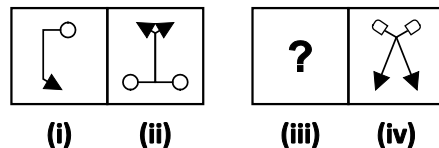
You may use a ruler and spare paper for rough work.

Section - A

(This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct)

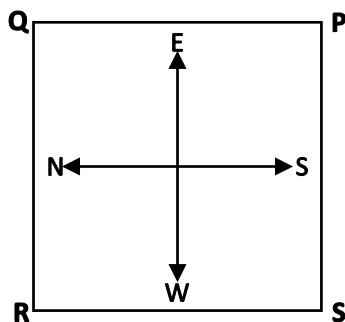
- Pointing to a girl, Sanjeev said, "She is the daughter of the only sister of my father." How is Sanjeev related to the girl?

| | |
|------------|-----------------|
| (A) Uncle | (B) Father |
| (C) Cousin | (D) Grandfather |
- There is a certain relationship between figure (i) and (ii). Establish the same relationship between figure (iii) and (iv) by selecting a suitable figure from the given options which will replace the (?) in figure (iii).



- | | |
|-----|-----|
| (A) | (B) |
| (C) | (D) |

- P, Q, R and S are standing on the four corners of a square field as shown in the adjoining figure. P starts crossing the field diagonally. After walking half the distance, he turns right, walks some distance and turns left. Which direction is he facing now?



- | | |
|----------------|----------------|
| (A) West | (B) North-East |
| (C) North-West | (D) South-West |
- Anisha, Chhavi and Deepika are three sisters. Who among the sisters is oldest, if all the given statements are true?
 - Anisha is the youngest.
 - Chhavi is not the youngest.

• Deepika is not the oldest.

- (A) Anisha (B) Chhavi
(C) Deepika (D) None of these

5. Arrange the following words in alphabetical order as arranged in a dictionary and choose the word that comes in third place.

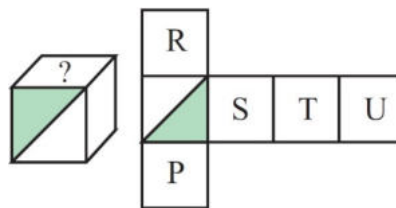
- (A) Originality (B) Originate
(C) Original (D) Originally

6. Find the missing number.



- (A) 114 (B) 84
(C) 104 (D) 94

7. A cube and its net is given below. Which letter will be at the top of the cube?



- (A) R (B) S
(C) P (D) U

8. In the given matrix below, which number should replace Y?

| | | |
|---|---|----|
| 5 | 6 | 36 |
| 6 | 9 | 63 |
| 7 | Y | 24 |

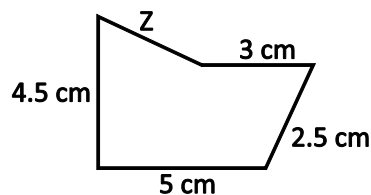
- (A) 3 (B) 6
(C) 8 (D) 12

Section - B

(This section contains 25 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct).

9. The successor of 'successor of 999998' is _____.
- (A) 1000000 (B) 999999
(C) 999997 (D) 100000
10. $\frac{5}{12}$ of 2 years will have _____.
- (A) 5 months (B) 6 months
(C) 10 months (D) 12 months
11. Medicines are packed in boxes. Each box weighs 4 kg 500 g. The number of such boxes which can be loaded in a van which can carry a maximum load of 800 kg is _____.
- (A) 170 (B) 177
(C) 178 (D) 180
12. Area of a park is 360 m² and its length is 30 m. The distance around the rectangular pond is _____.
- (A) 80 m (B) 42 m
(C) 12 m (D) 84 m
13. Pankaj is on the 8th floor of an educational building. He comes down 5 floors and then goes 7 floors up again to visit the dean. On which floor the dean's office is?
- (A) 8th (B) 10th
(C) 11th (D) 12th
14. The smallest number having three different prime factors is _____.
- (A) 245 (B) 105
(C) 158 (D) 261
15. The digits 5 and 9 of the number 35,694 are interchanged. The difference between the original number and the new number is _____.
- (A) 3,860 (B) 3,960
(C) 3,980 (D) 4,910

16. Which of the following expression is INCORRECT?
- (A) Positive integer > Negative integer < Zero
 (B) Positive integer > Zero > Negative integer
 (C) Positive integer > Zero < Negative integer
 (D) Zero < Positive integer > Negative integer
17. What least value should be assigned to * so that the number 63576*2 is exactly divisible by 8?
- (A) 1 (B) 2
 (C) 3 (D) 4
18. The perimeter of the adjoining figure is 19 cm. The value of z is _____.

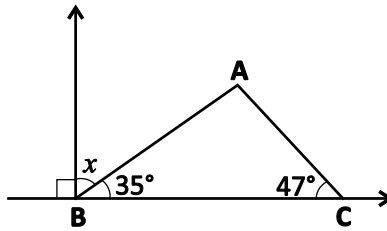


- (A) 3 cm (B) 4 cm
 (C) 3.5 cm (D) 5 cm
19. The pictograph below shows the wall hangings made by four sections of class 6 to decorate the school on the occasion of Diwali. The information for section B was missing.

| Sections of Class 6 | Number of wall hangings |
|-------------------------------|-------------------------|
| A | ☆☆☆☆ |
| B | ? |
| C | ☆☆☆☆☆ |
| D | ☆☆☆☆☆☆☆☆ |
| ☆☆ Represents 5 wall hangings | |

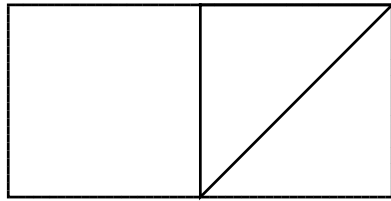
- Section B made 6 more wall hangings than the average number of wall hanging that all four sections of Class 6 made. How many wall hangings made by section B?
- (A) 32 (B) 35
 (C) 36 (D) 38

20. In the given figure, x equals _____.

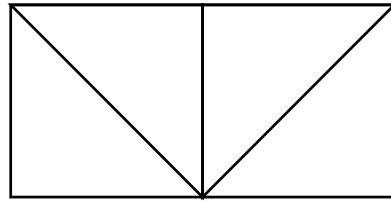


- (A) 55° (B) 65°
(C) 75° (D) 90°
21. The difference of sum of 895 and -483 from the sum of 380 and 538 is _____.
(A) -506 (B) 506
(C) 560 (D) 460
22. Which of the following alphabets has a horizontal line of symmetry?
(A) D (B) A
(C) P (D) T
23. My mother divided a watermelon into 16 parts. I ate 6 out of them. My friend ate 5. What fraction of watermelon remained?
(A) $\frac{6}{16}$ (B) $\frac{10}{16}$
(C) $\frac{5}{16}$ (D) $\frac{11}{16}$
24. Five friends went on a picnic. Each friend carried a chocolate for picnic. $\frac{3}{5}$ of chocolate was eaten. How much chocolate eaten at all?
(A) 1 (B) 3
(C) $\frac{3}{16}$ (D) $\frac{9}{12}$
25. Sahil is $4n$ years old. His father is thrice his age. How old will be the father when Sahil is 27 years old?
(A) $27 + 2n$ (B) $27 + 8n$
(C) $27 + 4n$ (D) $27 + 12n$

26. A paper is folded twice (shown as folded). After both the folds are removed the sheet takes the unfolded form (shown as unfolded).

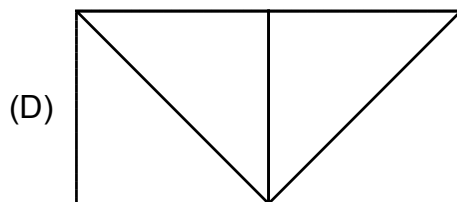
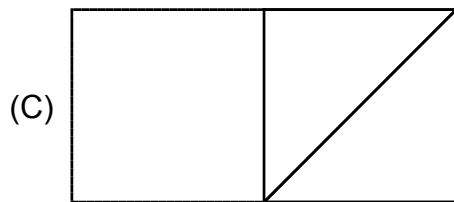
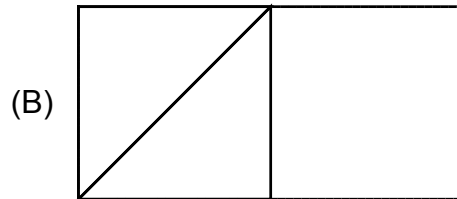
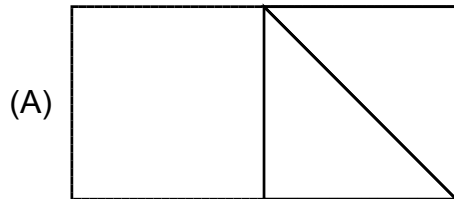


Folded



Unfolded

If only one fold is removed, then the paper will look like _____.



27. 1 L of kerosene oil weighs 0.819 kg and 10 L of diesel weighs 7.02 kg. The ratio of the weights of kerosene and diesel is _____.

(A) 5 : 7

(B) 7 : 5

(C) 6 : 7

(D) 7 : 6

28. What is the expression for the statement 'decrease the sum of a and 3 by b '?

(A) $(a + 3) - b$

(B) $\frac{a+3}{b}$

(C) $(a - 3 + b)$

(D) $(a + 3) \times b$

29. Milk costs ₹ 19.50 per half litre and packet of curd of 400 g costs ₹ 25. Sameer purchased three litres of milk and 2 kg of curd. How much did he pay?

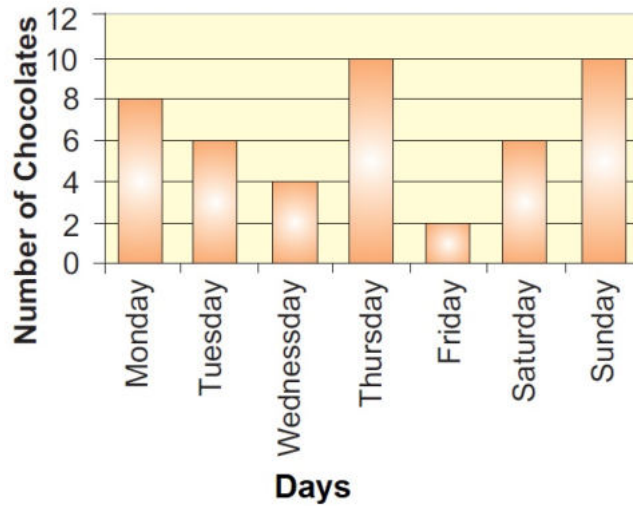
(A) ₹ 183.5

(B) ₹ 217

(C) ₹ 240

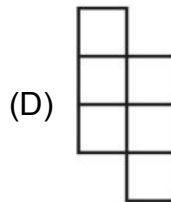
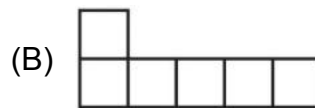
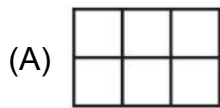
(D) ₹ 242

30. Manish recorded the number of chocolates sold on various days of a week, and represented the data on a bar graph, as shown below.



The number of chocolates sold on two days preceding Thursday is _____ than the number of chocolates sold on two successive days after Wednesday.

- (A) 2 more (B) 3 more
(C) 1 less (D) 2 less
31. All the figures below consist of the same six squares of equal size. Which figure has the smallest perimeter?

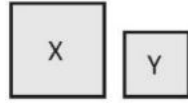


32. Which value of L makes the given equation correct?

$$L - \{-4 - (2 - 8 \div 4)\} = 8$$

- (A) 4 (B) -4
(C) 10 (D) 12

33. The length of square 'X' is four times the length of square 'Y'. What is the ratio of their perimeters respectively?



- (A) 3 : 1
(B) 4 : 1
(C) 9 : 1
(D) 16 : 1

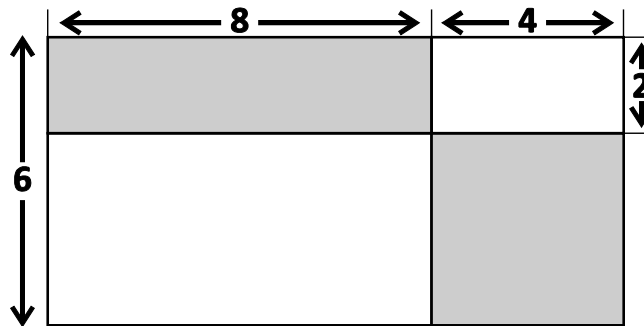
Section - C

(This section contains 7 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which TWO are correct).

34. Which of the following sets of measures will NOT form a triangle?

- (A) 8 cm, 11 cm, 19 cm
(B) 4 cm, 5 cm, 7 cm
(C) 3 cm, 4 cm, 6 cm
(D) 4 cm, 8 cm, 13 cm

35. The area of the shaded region is _____.



- (A) 42 sq units
(B) $\frac{84}{2}$ sq units
(C) 32 sq units
(D) $\frac{64}{2}$ sq units

36. Which of the following numbers are divisible by 8?

- (A) 79,08,434
(B) 4,59,82,014
(C) 2,56,73,512
(D) 97,10,216

37. Vandana eats one full bar of chocolate. Then she divides another one into 5 equal parts and eats 3 of those parts. The total fraction of chocolates she has eaten up is _____.



- (A) $1\frac{3}{5}$ (B) $2\frac{8}{10}$
(C) $\frac{8}{10}$ (D) $\frac{8}{5}$

38. One integer is smaller than the other by 8. If one number is -15 , then the other number is _____.

- (A) 23 (B) -7
(C) -23 (D) 7

39. If 20 handkerchiefs cost rupees x , then what amount would 40 such handkerchiefs cost?



- (A) $\frac{40}{20}x$ (B) $2x$
(C) $3x$ (D) $\frac{60}{20}x$

40. The ages of Pushpa and her daughter are in the ratio $5 : 3$. The sum of their ages is 144 years. Their ages are _____.

- (A) 80 years (B) 90 years
(C) 64 years (D) 54 years

Acknowledgement

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