



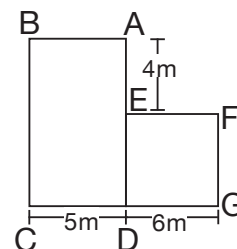
LEVEL - 2

Year 2017-18

MATHEMATICS

1. In the given figure, ABCD is a rectangle and DEFG is a square. Find the perimeter of the figure.

- A. 38 m
B. 42 m
C. 46 m
D. 52 m



2. How many letters in the given word have at least one line of symmetry?

WATERING

- A. 4 B. 6 C. 5 D. 3

3. Study the following numbers.

MCCLIII , MDXCIV , MCDXC
MDCXIV , MCCCLVII , MCDV

Find the sum of the digits at hundreds place of the smallest and the greatest number.

- A. 8 B. 9 C. 6 D. 11

4. The given table shows the number of books read by students of a school.

Number of books read	0	1	2	3	4	5
Number of students	245	870	965	1120	844	762

How many students read more than two books?

- A. 3691 B. 2571 C. 2966 D. 2726

5. Aakash had 34 kg 975 g of sugar. After packing it equally into 6 packets of equal weight, he was left with 8 kg 725 g of sugar. How much sugar was there in each packet?

- A. 4 kg 375 g B. 3 kg 475 g C. 3 kg 725 g D. 4 kg 725 g

6. Find the values of P, Q, R and S respectively.

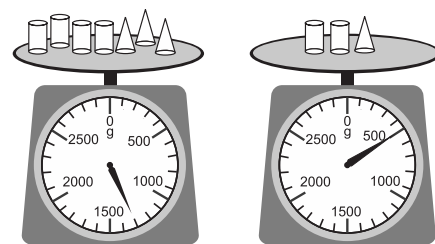
Number	Rounded off to nearest 100	Rounded off to nearest 1000
92684	P	R
43595	43600	Q
S	14600	15000

- A. 92000, 44000, 92000, 14595 B. 92700, 43000, 93000, 14595
C. 92000, 43000, 92000, 14680 D. 92700, 44000, 93000, 14620

SPACE FOR ROUGH WORK

7. Study the given figures carefully and find the weight of .

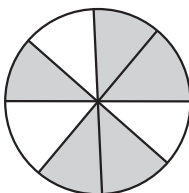
- A. 400 g
- B. 200 g
- C. 100 g
- D. 300 g



8. Study the following statements and select the INCORRECT option.

- A. Symbols V, L and D can never be subtracted while writing roman numerals.
- B. The successor of the greatest 4-digit number is the smallest 5-digit number.
- C. Difference between the successor and the predecessor of a number is always 1.
- D. The difference between the smallest and the largest 5-digit number formed by 3, 4, 6, 0 and 2 (without any repetition of a digit) is 43974.

9. Which of the following options has the same shaded fraction as the unshaded fraction of given figure?



- A.  B.  C.  D. 

10. Fill in the blanks.

- 4 groups of 9 is P less than 2 groups of 19.
- 3 groups of 5 is Q more than 6 groups of 2.
- 7 groups of 6 is R less than 9 groups of 6.
- 8 groups of 8 is S more than 4 groups of 15.

	P	Q	R	S
A.	3	3	10	4
B.	2	4	12	6
C.	2	3	12	4
D.	3	4	10	6

SPACE FOR ROUGH WORK

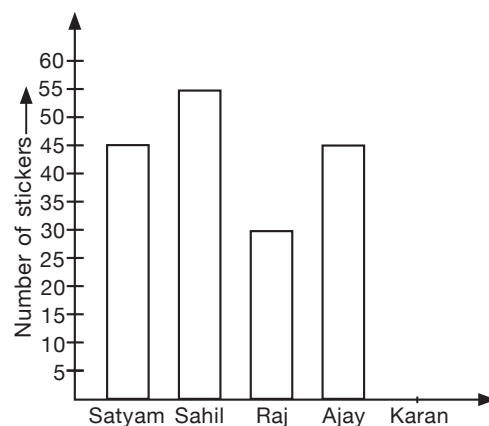
Direction (11-12) : Study the given graph showing the number of stickers collected by five friends and answer the following questions.

11. How many stickers Sahil must give to Ajay so that they both have equal number of stickers?

- A. 10 B. 5
C. 8 D. 3

12. If the total stickers collected were 225, then find the number of stickers collected by Karan.

- A. 50 B. 45
C. 55 D. 40



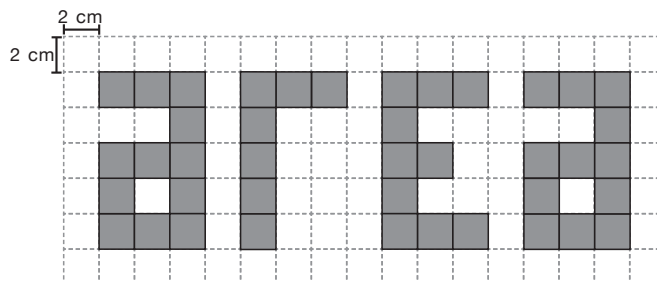
13. If the smallest 5-digit number formed by digits 8, 6, 0 and 4 (each digit must be used at least once) is divided by 12, then the quotient will be _____.

- A. 3390 B. 3309 C. 3339 D. 3039

14. A train which was scheduled to arrive at Nizamuddin station got 1 hour 25 mins late. It leaves the station after 15 minutes and reaches Jaipur station at 9 : 45 p.m. after 8 hours 35 mins of journey. Find its scheduled time to arrive at Nizamuddin station.

- A. 10 : 30 a.m. B. 11 : 30 a.m. C. 11 : 20 a.m. D. 11 : 50 a.m.

15. Find the perimeter of the shaded region.



- A. 150 cm B. 152 cm C. 154 cm D. None of these

16. The given table shows the petrol used by Vivek in a week. Find the total quantity of petrol used by Vivek on Monday, Wednesday, Friday and Saturday.

- A. 17 L 540 mL
B. 16 L 540 mL
C. 16 L 225 mL
D. 18 L 85 mL

Monday	3 L 560 mL
Tuesday	4 L 325 mL
Wednesday	3 L 780 mL
Thursday	4 L 105 mL
Friday	5 L 325 mL
Saturday	4 L 875 mL

SPACE FOR ROUGH WORK

17. Find the number using the given clues.

- The number is the predecessor of a two digit even number.
- The number is a multiple of 3.
- Sum of digits of the number is an even number.

A. 87

B. 99

C. 93

D. 66

Direction (18-19): Study the given table showing the number of marbles of different colours Trishi has and answer the following questions.

Colour	Red	Yellow	Orange	Pink
Number of marbles	26	34	52	47

18. What fraction of total marbles are of red colour?

A. $\frac{52}{159}$

B. $\frac{26}{159}$

C. $\frac{47}{160}$

D. $\frac{37}{160}$

19. What fraction of total marbles are not of orange colour?

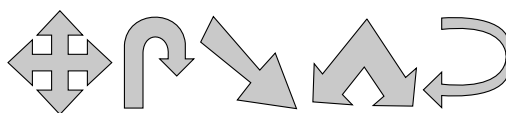
A. $\frac{107}{159}$

B. $\frac{52}{159}$

C. $\frac{107}{160}$

D. $\frac{133}{160}$

20. How many of the following figures have no line of symmetry?



A. 2

B. 3

C. 4

D. 5

21. If + + = ₹ 1986; + = ₹ 2385 and + = ₹ 684,

then find the cost of .

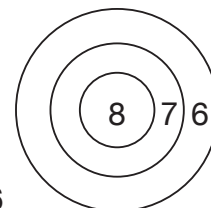
A. ₹ 1563

B. ₹ 1060

C. ₹ 1480

D. ₹ 1673

22. Kunal is playing game of darts. The dart board is divided into 3 sections having different points as shown in the figure. The score of Kunal is the sum of the points he acquired after throwing 3 darts on the board. Which of the following cannot be the score of Kunal?



A. 22

B. 23

C. 20

D. 26

SPACE FOR ROUGH WORK

23. How many hundreds must be subtracted from 27683 to get 2783?

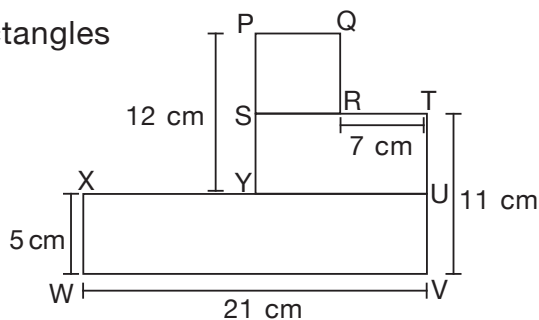
- A. 249 B. 2400 C. 20000 D. 2000

24. Multiply 8th multiple of 14 with 12th multiple of 19 and round off the answer to the nearest thousand. The final result is _____.

- A. 26000 B. 25000 C. 25600 D. 25500

25. Given figure is made up of a square PQRS and two rectangles STUY & XUVW. Find the length of XY.

- A. 12 cm
B. 8 cm
C. 13 cm
D. 6 cm



26. Which of the following numbers are arranged in ascending order?

- A. $\frac{7}{12}, \frac{8}{12}, \frac{10}{12}, \frac{9}{12}, \frac{11}{12}$ B. $\frac{3}{7}, \frac{4}{7}, \frac{5}{7}, \frac{8}{7}, \frac{10}{7}$
C. $\frac{11}{14}, \frac{10}{14}, \frac{8}{14}, \frac{6}{14}, \frac{3}{14}$ D. $\frac{15}{19}, \frac{13}{19}, \frac{10}{19}, \frac{7}{19}, \frac{9}{19}$

27. A library has 312 racks of books. If each rack has 263 books, then how many total books are there?

- A. 92006 B. 91846 C. 81042 D. 82056

28. Find the missing number.

$$3 \times 8 \times 14 \times 12 \times \underline{\quad ? \quad} = 126 \times 288$$

- A. 6 B. 9 C. 12 D. 8

29. A barrel contains 20 L 175 mL of oil. The barrel is emptied into 25 cans equally. Each can will hold _____ of oil.

- A. 812 mL B. 917 mL C. 807 mL D. 87 mL

30. Sonali had 78 boxes with 287 bangles in each box. If 1453 bangles were broken, then how many unbroken bangles were there?

- A. 21843 B. 20763 C. 22913 D. 20933

SPACE FOR ROUGH WORK

ACHIEVERS SECTION

31. Shivam's flight to Canada departs at 11 : 15 p.m. He has to check in at the airport terminal 1 hour 45 minutes earlier. The journey to the terminal takes 50 minutes. He needs 30 minutes to get dressed and 15 minutes to have his dinner. At what time should he start preparing for his trip?

- A. 6 : 55 p.m.
- B. 8 : 05 p.m.
- C. 7 : 55 p.m.
- D. 8 : 25 p.m.

32. Find the value of $S \times R - P + Q$.

- A. 41
- B. 30
- C. 32
- D. 38

$$\begin{array}{r}
 3 \boxed{P} 57 \\
 27 \overline{) 87946} \\
 \underline{-81} \downarrow \\
 69 \downarrow \\
 \underline{-54} \downarrow \\
 1 \boxed{S} 4 \downarrow \\
 \underline{-135} \downarrow \\
 196 \downarrow \\
 \underline{-196} \downarrow \\
 \boxed{R}
 \end{array}$$

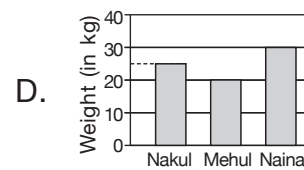
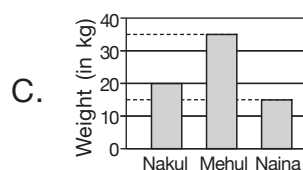
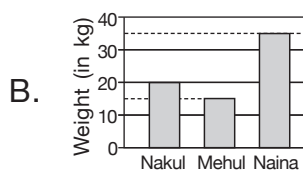
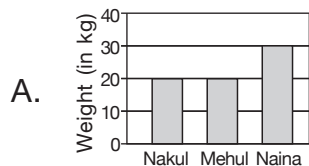
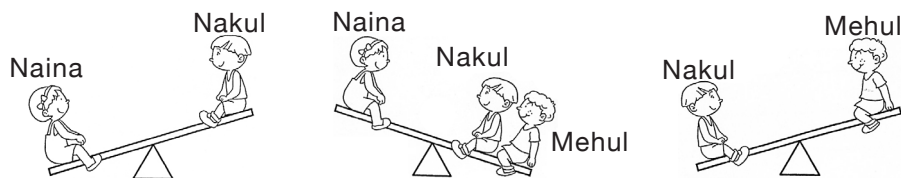
33. Fill in the blanks.

- There were 40 children at a party. 14 of them were boys. P fraction of children were girls.
- Cost of a teddy bear is $\frac{2}{3}$ of the cost of a doll. If cost of the teddy bear is ₹114, then cost of the doll is ₹Q.
- Difference between $3\frac{1}{4}$ and $2\frac{3}{8}$ is R.
- If $x + \frac{5}{12} = \frac{7}{6}$, then $x =$ S.

- | | P | Q | R | S |
|----|-------|-----|-----|-----|
| A. | 7/20 | 76 | 5/8 | 1/4 |
| B. | 13/20 | 76 | 7/8 | 1/4 |
| C. | 7/20 | 171 | 5/8 | 3/4 |
| D. | 13/20 | 171 | 7/8 | 3/4 |

SPACE FOR ROUGH WORK

34. Nakul, Mehul and Naina were sitting on the see-saw at the playground. Which of the following bar graphs correctly shows the weight of the three children?



35. Match the numbers obtained after the additions of roman numerals given in Column I with their hundreds digit given in Column II.

Column I

P. MMDCCX + MCDXVII

Q. MCCCXV + MDCIX

R. MDXCIX + MDCVIII

S. MCDVII + MDCIX

A. P → (iii), Q → (i), R → (iv), S → (ii)

C. P → (iii), Q → (iv), R → (i), S → (ii)

Column II

(i) 9

(ii) 0

(iii) 1

(iv) 2

B. P → (ii), Q → (i), R → (iv), S → (iii)

D. P → (ii), Q → (iv), R → (i), S → (iii)

SPACE FOR ROUGH WORK