



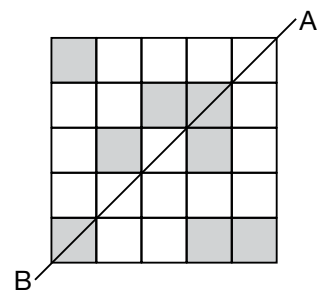
LEVEL - 2

Year 2018-19

MATHEMATICS

1. What is the least number of squares that must be shaded so that AB becomes the line of symmetry?

A. 0
B. 2
C. 3
D. 4



2. The weight of  is _____ .



A. 10 B. 5 C. 20 D. 15

3. The value of CMXCIX – DCLX equals _____.

A. CCXXIX B. CCCXXXIX C. DCXX D. DCLXIX

4. Niharika has a collection of toys. Out of which 4 are teddy bears, 5 are balls and 3 are dolls. What fraction of the toys are not balls?

A. $\frac{7}{12}$ B. $\frac{3}{12}$ C. $\frac{5}{12}$ D. $\frac{4}{12}$

5. Which of the following options has the same product as (212×5) ?

A. $200 \times (12 + 5)$ B. $(200 + 12) \times 5$ C. $210 + (2 \times 5)$ D. $200 \times 12 \times 5$

6. Shruti has 120 toffees. Pankaj had two times as many toffees as Shruti had. Priya had 50 toffees less than Pankaj. How many toffees did they all have altogether?

A. 430 B. 550 C. 290 D. 310

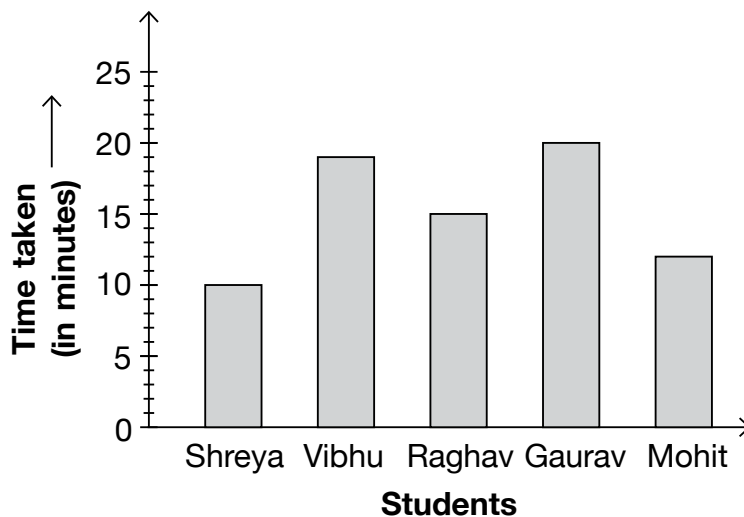
7. The given table shows the cost of clothes Mr Verma bought from a shop. If he paid ₹ 500, then how much money will he get back ?

A. ₹ 280 B. ₹ 180
C. ₹ 80 D. ₹ 270

Shirt	₹ 120
Pant	₹ 150
Tie	₹ 50

SPACE FOR ROUGH WORK

Direction (8-9) : The given bar graph shows the time taken by five students for their 2 km race for a Fitness Test. Study the graph carefully and answer the following questions.



8. Among the five students, who completes the race in least time?
 A. Gaurav B. Mohit C. Vibhu D. Shreya
9. The correct ascending order of students according to the time taken by them from least to the greatest is
 A. Shreya, Mohit, Raghav, Vibhu, Gaurav B. Mohit, Raghav, Vibhu, Shreya, Gaurav
 C. Shreya, Raghav, Vibhu, Gaurav, Mohit D. Gaurav, Vibhu, Raghav, Mohit, Shreya
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10. In the number 28523, if the digit at tens place and thousands place interchange, then find the sum of place values of all the digits in the new number formed.
 A. 22583 B. 28523 C. 20 D. None of these

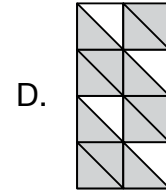
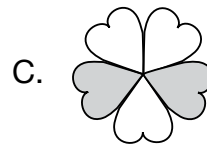
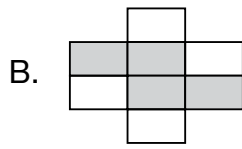
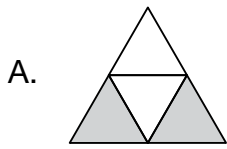
11. Find the value of $2P - Q + R - 5$.

- A. 15
 B. 12
 C. 0
 D. 8

$$\begin{array}{r}
 2\boxed{R}5\boxed{Q} \\
 12 \overline{) 25897} \\
 \underline{-24} \downarrow \\
 18 \downarrow \\
 \underline{-12} \downarrow \\
 \boxed{P}9 \downarrow \\
 \underline{-60} \downarrow \\
 97 \downarrow \\
 \underline{-9\boxed{P}} \downarrow \\
 \boxed{R}
 \end{array}$$

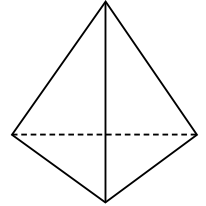
SPACE FOR ROUGH WORK

12. Which of the following figures has shaded fraction equal to $\frac{1}{2} + \frac{1}{4}$?



13. Which of the following options is true about the given figure?

- A. It has five faces.
- B. It has five vertices.
- C. It has three curved faces.
- D. None of these



14. If + + = 1500, 2 + 2 = 1900 and + 2 = 1190, then find the value of 3 .

- A. 810
- B. 630
- C. 1890
- D. 950

15. The greatest four digit number that can be formed by using the digits 3, 5 and 0 (using each digit at least once) when multiplied by 15 gives _____.

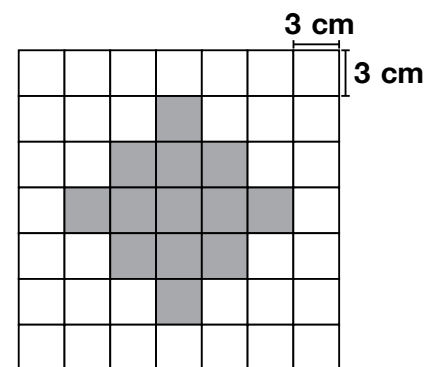
- A. 79500
- B. 82995
- C. 83295
- D. 82950

16. A group of 12 friends donates ₹ 45300 for a relief fund. If each friend donates equal amount of money, then how much money is donated by each of them?

- A. ₹ 3775
- B. ₹ 3560
- C. ₹ 2825
- D. ₹ 3105

17. Find the perimeter of the shaded part of the given figure.

- A. 50 cm
- B. 55 cm
- C. 57 cm
- D. 60 cm



SPACE FOR ROUGH WORK

18. Identify the number using the given clues.



- It lies between 10 and 25.
- It is a multiple of 4 and 6.
- When the number is divided by 8, the remainder will be zero.

- A. 16 B. 24 C. 12 D. 40

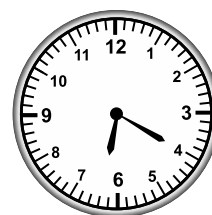
19. Dhavi had two ribbons blue and green. If length of green ribbon is twice the length of blue ribbon, then find the total length of both the ribbons.



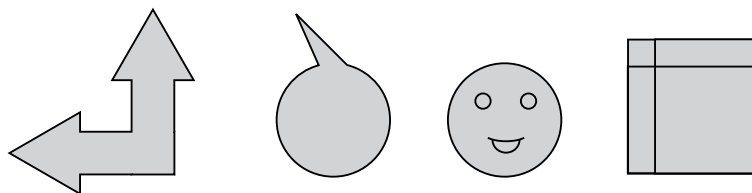
- A. 15 cm B. 24 cm C. 21 cm D. 16 cm

20. If the given clock is 30 minutes slow, then which of the following options shows the actual time?

- A. 10 minutes past 6 O' clock
 B. 10 minutes to 7 O' clock
 C. 10 minutes past 7 O' clock
 D. 10 minutes to 6 O' clock



21. How many of the following figures do not have any line of symmetry?



- A. 1 B. 2 C. 3 D. 4

22. By how much is $\frac{19}{20}$ greater than $\frac{7}{20}$?

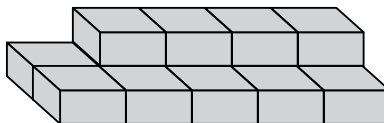
- A. $\frac{13}{20}$ B. $\frac{12}{20}$ C. $\frac{21}{20}$ D. $\frac{31}{20}$

SPACE FOR ROUGH WORK

23. Shivam mixed 5L of litchi juice and 3L of guava juice and poured the mixture equally into 25 glasses. How much quantity of juice does each glass has?

- A. 320 mL B. 200 mL C. 250 mL D. 270 mL

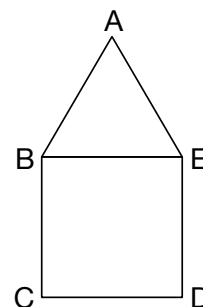
24. How many cuboids are required to make the given solid?



- A. 10 B. 11 C. 14 D. 15

25. The given figure is made up of an equilateral triangle and a square. If the perimeter of the given figure is 40 cm, then find CD.

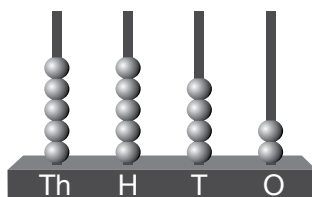
- A. 5 cm
B. 8 cm
C. 6 cm
D. None of these



26. 6000 newspapers were delivered by 43 boys to various areas. How many newspapers were left, if each boy delivered equal number of newspapers?

- A. 3 B. 20 C. 23 D. 17

27. How many beads should be added to the tens place in the given abacus, if it has to represent a number which is 3 tens more than the number shown in the abacus?



- A. 2 B. 5 C. 3 D. 6

28. A salesman sold a bike at ₹ 1,15,000 when rounded off to the nearest thousands. What could be the possible value of bike?

- A. ₹ 1,14,250 B. ₹ 1,15,625 C. ₹ 1,15,225 D. ₹ 1,15,525

SPACE FOR ROUGH WORK

29. A contractor got contract for the construction of two roads. The length of first road is 82 km 500 m and that of second road is 75 km 250 m. Find the total length of the road that he needs to construct.

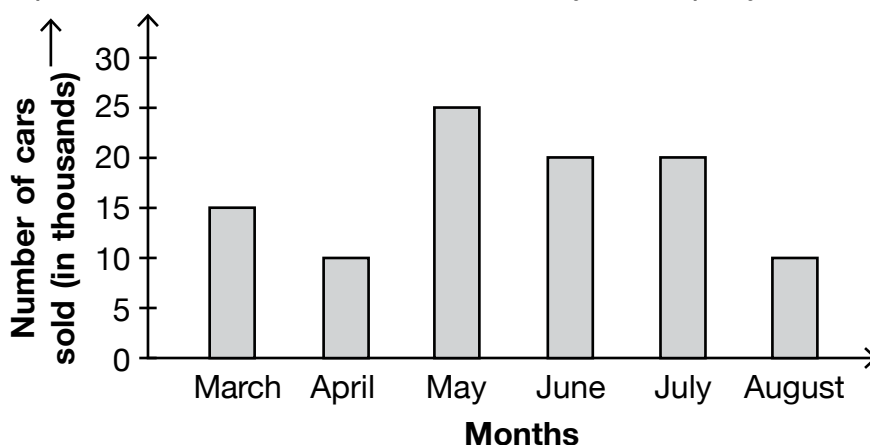
- A. 7 km 250 m B. 152 km 500 m C. 50 km 250 m D. 157 km 750 m

30. A movie started at 4:00 p.m. and finished at 7:15 p.m. If the duration of interval break in the movie was 20 minutes, then the actual duration of the movie was _____.

- A. 3 hours 35 minutes B. 2 hours 55 minutes
C. 2 hours 50 minutes D. 3 hours 15 minutes

ACHIEVERS SECTION

31. The given bar graph shows the number of cars sold by a company from March to August.



- (i) In which of the following months, the sales were more than the previous month?
(ii) Find the difference between the total sale of cars in the month of April and May together and the sales of cars in August.

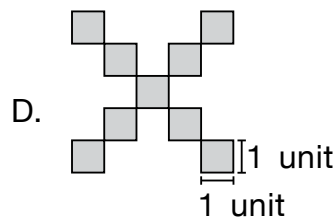
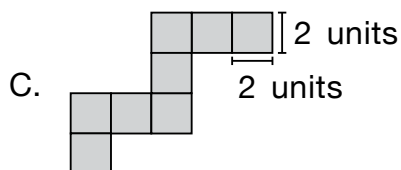
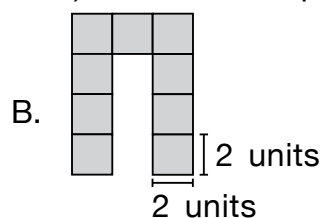
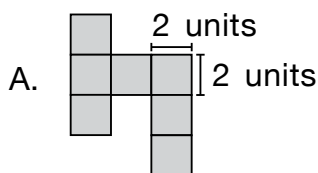
- | (i) | (ii) |
|---------|--------|
| A. May | 25,000 |
| B. June | 25,000 |
| C. July | 15,000 |
| D. May | 10,000 |

32. If $P + Q + R = \frac{13}{15}$, $P + Q = \frac{7}{10}$ and $P - R = \frac{1}{30}$, then find the value of $Q + R$.

- A. $\frac{1}{6}$ B. $\frac{2}{3}$ C. $\frac{1}{5}$ D. $\frac{4}{5}$

SPACE FOR ROUGH WORK

33. Which of the following figures (not drawn to scale) has the least perimeter?



34. Which of the following statements is INCORRECT?

- A. 40 thousands + 20 tens + 90 ones is 40290.
- B. In roman numeral symbol X cannot be subtracted from L.
- C. The sum of third multiple of 8 and fifth multiple of 5 is 49.
- D. 8 is a factor of both 32 and 56.

35. At 9:15 a.m., Amit left his house and reached the market at 10:20 a.m. After shopping, he left the market at 11:50 a.m.. He reached back his house at 12:30 p.m..

- (i) How much time did he spend at the market?
- (ii) How much time did he take to travel to his house from the market?

- | | (i) | (ii) | | (i) | (ii) |
|----|--------------|---------|----|--------------|---------|
| A. | 1 hr 20 mins | 50 mins | B. | 1 hr 30 mins | 40 mins |
| C. | 45 mins | 40 mins | D. | 90 mins | 50 mins |

SPACE FOR ROUGH WORK