



SCHOLASTIC COUNCIL FOR ACADEMIC EXCELLENCE

The All India Scholastic Quest Olympiads

Time: 1 hour

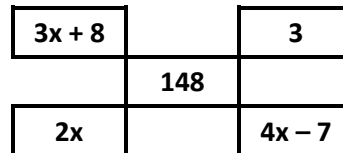
Scholastic Maths Olympiad – Class 6

Total Marks: 40

Paper Code: M-6401/17-18

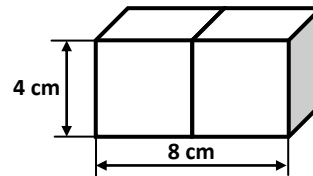
Total Pages: 4

1. If the number in the centre is the sum of all other numbers, find the value of 'x'.



- A) 15 B) 16
C) 26 D) 28

2. Two cubes each of side 4 cm are joined end to end. What is the surface area of the resulting cuboid?

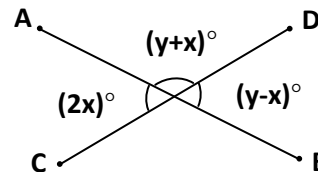


- A) 160 cm^2 B) 176 cm^2
C) 192 cm^2 D) 172 cm^2

3. Saniya invested ₹ 12,000 for 4 years at 9 % simple interest per annum. Find the amount received by her at the end of 4 years.

- A) ₹ 16,300 B) ₹ 16,620 C) ₹ 16,320 D) ₹ 17,400

4. Find the values of x and y in the adjoining figure.



- A) $x = 40, y = 60$ B) $x = 60, y = 50$
C) $x = 60, y = 30$ D) $x = 30, y = 90$

5. Which of following numbers is divisible by both 4 and 9?

- A) 3704 B) 1251 C) 5724 D) 2548

6. Write the equation for the statement: "One seventh of a number added to 7 is thrice the number"

- A) $\frac{a+7}{7} = 3$ B) $\frac{a+7}{7} = 3a$ C) $\frac{a}{7} + 7 = 3a$ D) $\frac{a}{7} + 7 = 3$

7. The traffic lights at three different road crossings change after every 30 seconds, 36 seconds and 45 seconds respectively. If they all change simultaneously at 9:15:00 hours, then at what time they again change simultaneously.

- A) 9:17:00 hours B) 9:17:30 hours C) 9:18:00 hours D) 9:18:10 hours

8. If Ravi, Mohan and Sam divide ₹ 15,300 among themselves in the ratio 3 : 2 : 4, then find Mohan's share.

- A) ₹ 5,100 B) ₹ 3,400 C) ₹ 5,600 D) ₹ 5,300

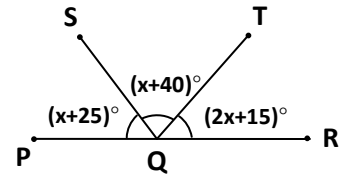
9. What percent of a day is 72 minutes?

- A) 12% B) 8% C) 5% D) 15%

10. $96 \div 12 \times \frac{1}{4} + \frac{3}{5} \times \frac{10}{9} = ?$
- A) $\frac{8}{3}$ B) $\frac{98}{3}$ C) $\frac{800}{27}$ D) $\frac{8}{27}$
11. If the volume of a room is 792 m^3 and the area of the floor is 132 m^2 , find the height of the room.
- A) 6m B) 6.5 m C) 7 m D) 8 m
12. How much time will it take for an amount of ₹ 4500 to yield ₹ 810 as interest at 6% per annum of simple interest?
- A) 3 years B) 4 years C) 5 years D) 6 years
13. A cricket team won 60% of the total matches it played during the year. If it lost 24 matches in all and no matches were drawn, find the number of matches played during the year.
- A) 48 B) 60 C) 72 D) 84
14. The length of a rectangle is twice its breadth. If the perimeter is 72 m, find the area of the rectangle.
- A) 144 m^2 B) 288 m^2 C) 224 m^2 D) 248 m^2
15. $\left\{ 4 \times \left[\left(\frac{5}{2} \times \frac{1}{3} \right) + 9 \right] \div 7 \right\} = ?$
- A) $\frac{118}{21}$ B) $\frac{178}{21}$ C) $\frac{43}{7}$ D) $\frac{17}{21}$
16. Which of the following is the greatest?
- A) 90% of 10 B) 6% of 1000 C) 5% of 1400 D) 3% of 2200
17. Two tankers contain 850 litres and 680 litres of water respectively. Find the maximum capacity of a container which can measure the water of both tankers when used exact number of times.
- A) 150 litres B) 170 litres C) 190 litres D) 210 litres
18. In a bag, there are certain number of toy-blocks with alphabets A, B, C and D written on them. The ratio of number of blocks A:B:C:D is 4:7:3:1. If the number of 'A' blocks is 50 more than the number of 'C' blocks, what is the number of 'B' blocks?
- A) 350 B) 50 C) 210 D) 140
19. Mitali made 3,040 greeting cards to sell. She will sell the cards after packing them in boxes, with the same number of cards in each box and no cards left over. How many cards could Mitali put in each box?
- A) 3 B) 6 C) 9 D) 10
20. A manufacturer sells three products i.e. P, Q and R. Product P costs ₹ 200 and sells for ₹ 250, Product Q costs ₹ 150 and sells for ₹ 180, Product R costs ₹ 100 and sells for ₹ 130. On which product, does he earn maximum percentage of profit?
- A) P B) Q C) R D) P and Q both
21. 40 square tiles of equal size were needed to cover a floor area of 90 m^2 . Find the length of each tile.
- A) 1.2 m B) 2.25 m C) 1.5 m D) 2.5 m
22. Find the largest number that divides 92 and 74 leaving 2 as remainder?
- A) 15 B) 18 C) 20 D) 12

23. In the adjoining figure, PQR is a straight line. Find the value of x.

- A) 20
B) 25
C) 50
D) 100



24. If $8^{(3M-7)} = \frac{1}{32^M}$, find the value of M.

- A) $\frac{3}{2}$
B) $\frac{2}{3}$
C) $\frac{3}{4}$
D) $\frac{4}{3}$

25. There are 650 students in a school. If the number of girls is 106 more than the boys, how many boys are there in the school?

- A) 284
B) 378
C) 387
D) 272

26. How many small cubes of 2 cm side can be fit into a cuboid of size 6 cm × 8 cm × 4 cm?

- A) 128
B) 48
C) 24
D) 12

27. Mr. Patil's salary was reduced by 20% and subsequently increased by 20%. Find the net percentage change in his salary.

- A) No change
B) 10% reduction
C) 10% increase
D) 4% reduction

28. In an examination, Shreya scored 86% marks out of 650 marks. How many marks did she get?

- A) 532
B) 547
C) 559
D) 568

29. A is 20% more than C and B is 50% more than C. Find the ratio A : B.

- A) 2 : 5
B) 4 : 5
C) 3 : 5
D) None of these

30. $3.5 + (7.2 - 0.54 \div 0.6) \times 0.01 = ?$

- A) 3.563
B) 3.611
C) 3.753
D) 3.654

31. A wire is in the shape of a square of side 10 cm. The wire is re-bent into a rectangle of length 12 cm. What is the area of rectangle formed?

- A) 96 cm^2
B) 100 cm^2
C) 108 cm^2
D) 120 cm^2

32. A day care centre has 72 children. Each teacher is allotted the same number of children. How many children could be allotted to each teacher?

- A) 5
B) 7
C) 9
D) 11

33. 4425 is divisible by _____

- A) 3, 5 and 8
B) 3 and 5
C) 3 and 7
D) 2, 5 and 9

34. How many square centimetres of cardboard are needed to make a rectangular box 12 cm long, 8 cm wide and 9 cm high?

- A) 552 cm^2
B) 525 cm^2
C) 864 cm^2
D) 276 cm^2

35. The ratio between the number of girls and the number of boys in school is 4 : 5. If the number of boys is 315, find the number of students in the school.

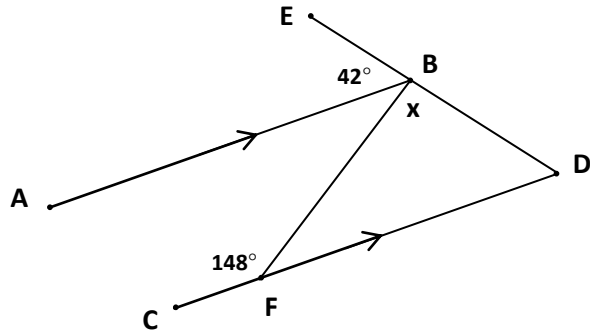
- A) 765
B) 567
C) 576
D) 675

36. A sum of money at simple interest amounts to ₹ 2240 in 2 years and to ₹ 2600 in 5 years. What is the principal amount?
 A) ₹ 1,000 B) ₹ 1,500 C) ₹ 2,000 D) ₹ 2,500

37. The value of $(16)^{\frac{1}{4}} \times (27)^{\frac{1}{3}} = ?$
 A) 6 B) 18 C) 12 D) 36

38. In the following figure, line AB and line CD are parallel to each other. Find angle x.

- A) 26° B) 106°
 C) 76° D) 96°



39. The perimeter of a trapezium of 10 cm height is 56 cm. If the sum of non-parallel sides is 22 cm, find the area of trapezium.
 A) 560 cm^2 B) 280 cm^2 C) 340 cm^2 D) 170 cm^2

40. Three numbers are in the ratio 5 : 3 : 9 and their sum is 1547. Find the smallest number.
 A) 455 B) 273 C) 268 D) 247



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1.	B	11.	A	21.	C	31.	A
2.	A	12.	A	22.	B	32.	C
3.	C	13.	B	23.	B	33.	B
4.	D	14.	B	24.	A	34.	A
5.	C	15.	A	25.	D	35.	B
6.	C	16.	C	26.	C	36.	C
7.	C	17.	B	27.	D	37.	A
8.	B	18.	A	28.	C	38.	B
9.	C	19.	D	29.	B	39.	D
10.	A	20.	C	30.	A	40.	B