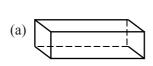
## IV (EM) ADTM

## CENTRE FOR PEDAGOGICAL STUDIES IN MATHEMATICS (CPSM) **ACHIEVEMENT-CUM-DIAGNOSTIC TEST IN MATHEMATICS-2023**

**INSTRUCTION:** Write your Name, Class Roll No. etc. in the answersheet. Select the correct answer out of (a), (b), (c) and (d) of particular item and fill the specific rectangle with blue/black ball pen denoting the correct answer. For example, if (c) is the correct answer to O. No. X: blacken like this: O. No. X:  $\square$   $\square$   $\square$  \underset \unde work is to be done on separate paper. Marks will be deducted for wrong answer. Don't waste time for answering a question which appears difficult to you, better try the next question.

- Which shape can be the face of a cuboid?
  - (a) rectangle (b) trapezium
- (c) triangle
- (d) rhombus

2. Select the odd one out.







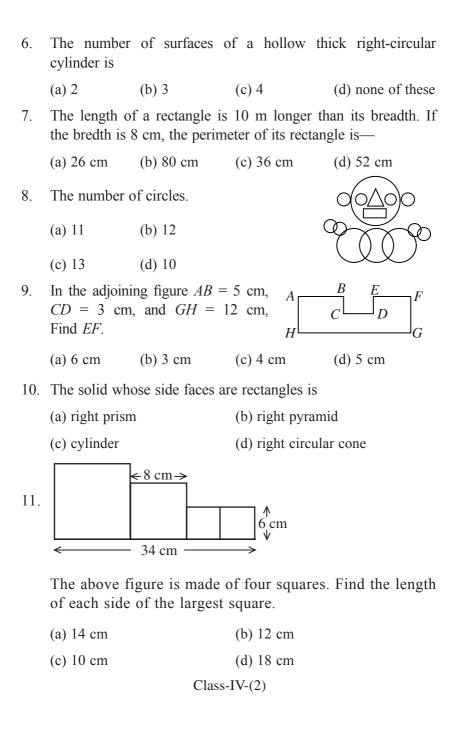


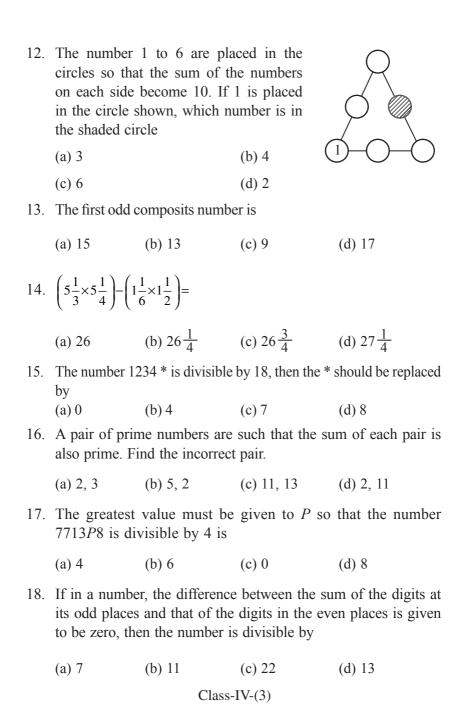
- The number of triangles in the adjoining figure. 3.
  - (a) 12
- (b) 13
- (c) 15
- (d) 16



- A basketball court is a rectangle 20m long and 10 m wide. Its perimeter is
  - (a) 30 m
- (b) 60 m
- (c) 90 m
- (d) 200 m
- Number of right angles in the adjoining figure. 5.
  - (a) 12
- (b) 14
- (c) 8
- (d) 10

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20.	There are many ways that you can add three different numbers to get a total of 12, if you multiply these three numbers we get a number called the product. Of all the ways to do this what is the largest product.						
	(a) 72	(b) 48	(c) 60	(d) 84			
21.	Which of the following is the greatest one digit number that has four factors.						
	(a) 6	(b) 8	(c) 9	(d) 4			
22.	Dodo watched a favourite programme from 12 : 30 pm to 2 : 25 pm. How long did the programme last?						
	(a) 105 mins	(b) 45 mins	(c) 115 mins	(d) 95 mins			
23.	If the pattern continues, what is the next number 5, 8, 7, 10, 9, 12, 11,,						
	(a) 10	(b) 12	(c) 8	(d) 14			
24.	Express $\frac{5}{12}$ of a day in hours.						
	(a) 5 hrs	(b) 10 hrs	(c) 12 hrs	(d) 20 hrs			
25.	There are 18 points in a line. The distance between two consecutive points is 18 cm. How long is the line.						
	(a) 306 cm	(b) 324 cm	(c) 342 cm	(d) 289 cm			
26.		$\theta + \theta + \theta = 48$ ; $\theta + \theta + \Delta = 40$ nd $\Delta + \Box \Box + \Box \Box = 1$ hen the number represented by $\Box \Box$ is					
	(a) 8	(b) 6 Class-	(c) 4 -IV-(4)	(d)none of these			

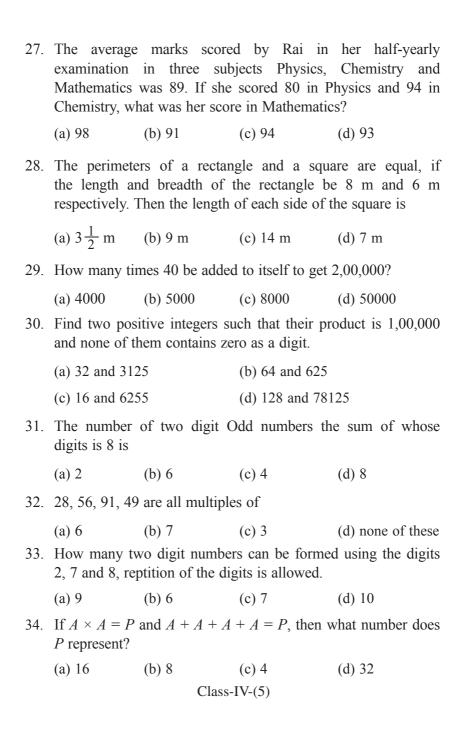
19. Hemantika is thinking a number, if 7 is taken away from the number the result is twice the number diminished by 15.

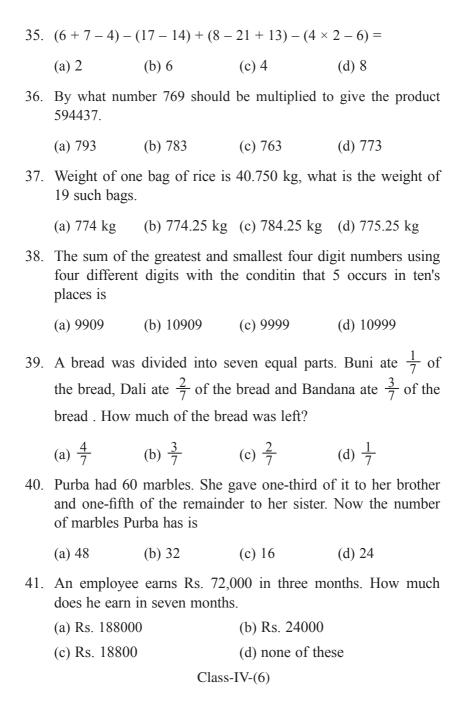
(b) 12

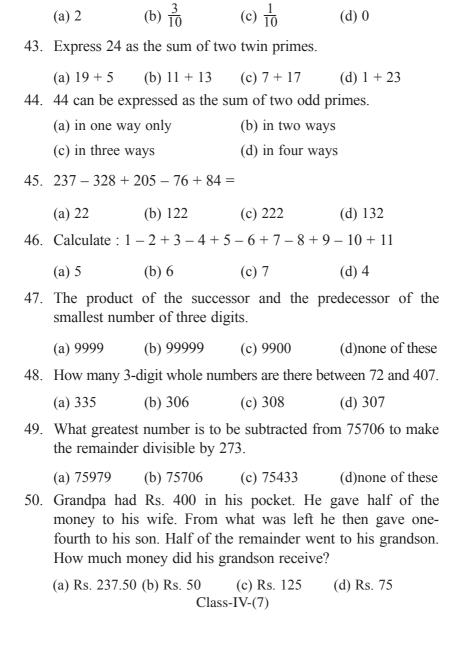
(a) 22

(c) 16

(d) 8







42.  $\left(2\frac{3}{5}-1\frac{7}{10}\right)-\left(1-\frac{1}{10}\right)=$ 

51.	numbers is 41. The other number is						
	(a) 676	(b) 1352	(c) 82	(d) 329			
52.	If $12K3 = (12 + 3)(12 - 3)$ then $(2K1)K2 =$						
	(a) 10	(b) 15	(c) 5	(d) 8			
53.	The unit digit	The unit digit of $6 \times 36 \times 46 \times 66 \times 76$ is					
	(a) 0	(b) 6	(c) 2	(d) 4			
54.	The product of three numbers is 65231, if two of them are 4 and 41 then the third number is						
	(a) 39	(b) 35	(c) 37	(d) 47			
55.	The sixth term of the series 41, 49, 57, 65,, is						
	(a) 81	(b) 79	(c) 72	(d) 78			
56.	Rs. 910 was divided among Pratyush, Purba and Prachi such that Purba gets twice that of Prachi and Pratyush gets twice that of Purba. What is Pratyush's share.						
	(a) Rs. 52	(b) Rs. 130	(c) Rs. 390	(d) Rs. 520			
57.	What is the measure of an angle of a square?						
	(a) 60°	(b) 90°	(c) 120°	(d) 100°			
58.	Soma walks 150 metres in 10 minutes, find her speed in km/hr.						
	(a) 9 km/hr	(b) $\frac{9}{10}$ km/hr	(c) $\frac{3}{10}$ km/hr	(d) 6 km/hr			
59.	In a division sum the divisor is 16, the quotient is 208 and the remainder is 5; find the dividend.						
	(a) 3303	(b) 3330	(c) 13333	(d) 3333			
60.		6 men can do a work in 36 days. In how many days the work is done by 6 men.					
	(a) 216 days	(b) 72 days	(c) 432 days	(d) 108 days			

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