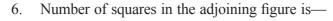
CENTRE FOR PEDAGOGICAL STUDIES IN MATHEMATICS (CPSM) ACHIEVEMENT-CUM-DIAGNOSTIC TEST IN MATHEMATICS-2023

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 \blacksquare with blue/black ball pen denoting the correct answer. For example, if (c) is the correct answer to Q. No. X: blacken like this: Q. No. X: \square \square \square Rough 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.

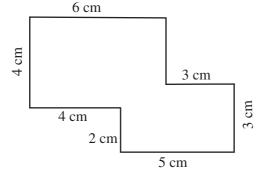
	wrong answer. Don't waste time for answering a question which appears difficult to you, better try the next question.							
-	1.	Number of figure is	right angles	in the adjoini	ng		1 г	
		(a) 6		(b) 12				
		(c) 8		(d) 10				
2	2.	The number of edges of a cube is—						
		(a) 4	(b) 8	(c) 16	(d) 12		
3	3.	Number of t	triangles in th	e adjoining fig	ure	$\overline{\times}$		$\overline{\langle}$
		(a) 14		(b) 16	K	\times	\times	\nearrow
		(c) 20		(d) 18		<u> </u>	<u> </u>	
4	4.	Number of s	urfaces of a th	ick hollow righ	t circula	r cylii	nder i	s—
		(a) 2	(b) 3	(c) 4	(d) none	e of t	hese
4	5.	the adjoining	of the smalle g figure be 2 the above fig (b) 24 cm	cm then the				
		(c) 18 cm	(d) 36 cm Cl	ass-V-(1)			•	



- (a) 5
- (b) 6
- (c) 8
- (d) 4



7.

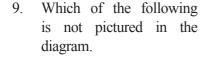


The shape is made of two overlapping rectangles. The lengths of the corresponding sides are given in the figure. What is the area of the figure.

- (a) 39 cm²
- (b) 37 cm²
- (c) 43 cm²
- (d) 41 cm²

8. Count the number of triangles in the adjoining figure.

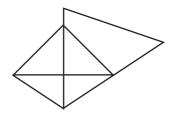
- (a) 9
- (b) 6
- (c) 8
- (d) 5



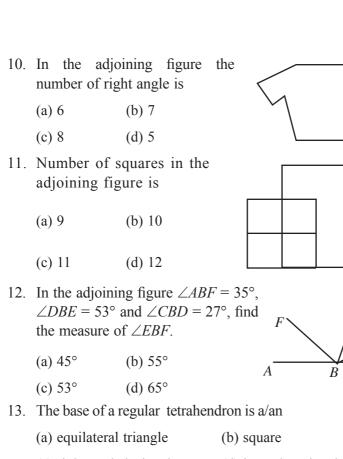


- (b) angle B
- (c) line segment CD
- (d) line AD

Class-V-(2)

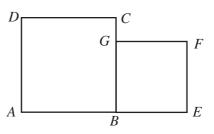


D



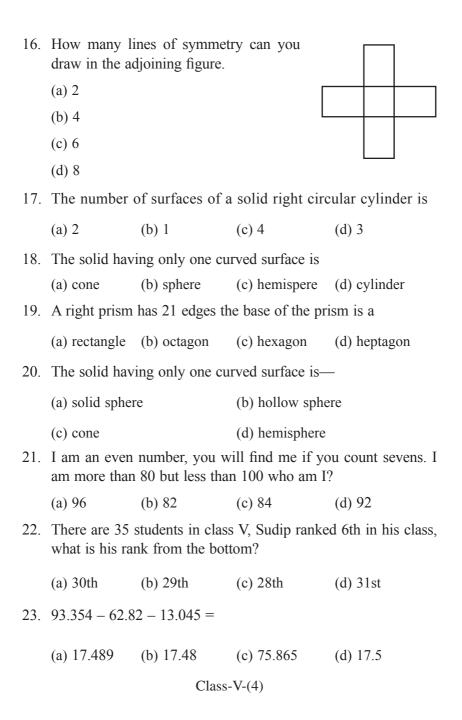
- (c) right angled triangle
- (d) isosceles triangle
- 14. The number of edges of a hexagonal prism is
 - (a) 8
- (b) 7
- (c) 12
- (d) 18

15. The figure below is made up of two rectangles ABCD and BEFG. Find the area of the figure, given AE = 30 cm, CD = 18 cm, DA = 18 cmand CG = 2 cm.



- (a) 544 cm^2 (b) 240 cm^2
- (c) 516 cm^2
- (d) 540 cm²

Class-V-(3)



24.	$\left(\frac{65}{12} + \frac{12}{7}\right) \div \left(\frac{6}{11}\right)$	$\left(\frac{5}{2} - \frac{12}{7}\right) =$			
	(a) $\frac{288}{311}$	(b) $1\frac{288}{311}$	(c) $\frac{599}{288}$	(d) $2\frac{288}{311}$	
25.	What should b	oe subtracted fro	om $\left(1+\frac{3}{10}\right)$ to g	get $\frac{5}{6}$?	
	(a) $\frac{2}{7}$	(b) $\frac{14}{15}$	(c) $\frac{7}{15}$	(d) $\frac{8}{15}$	
26.	The rational r	number which is	not lying betwe	een $\frac{5}{16}$ and $\frac{1}{2}$ is	
	(a) $\frac{3}{8}$	(b) $\frac{13}{32}$	(c) $\frac{7}{16}$	(d) $\frac{1}{4}$	
27.	The numbers 40, 19, 37, 33, 12, 25, 46, 18, 39, 21 are matched in pairs so that the sum of each pair is the same. Which number is paired with 39?				
	(a) 19	(b) 25	(c) 18	(d) 33	
28.	Sum of three greatest amon		oositive integers	is 393, find the	
	(a) 132	(b) 131	(c) 303	(d) 133	
29.	Which of the	following pairs	of numbers are	coprimes ?	
	(a) 91, 119	(b) 161, 192	(c) 143, 33	(d) 57, 115	
30.		two numbers is HCF of the num		f them is a prime	
	(a) 10	(b) 3	(c) 4	(d) 2	
31.	row-wise or o	trix that follows column wise. Fir		7 9 11	
	number. (a) 144		(b) 256	81 169	
	(c) 121	Class	(d) 289	2 4 6	

	(a) 1, 2	(b) 2, 3	(c) 11, 12	(d) 17, 19	
34.	. How many pairs of composite numbers between 10 and 20 are there which are prime to each other.				
	(a) 2	(b) 3	(c) 1	(d) none of these	
35.	5. The number $1771A61$ is always divisible by 11, where A is single digit. The possible value of A is				
	(a) 4	(b) 7	(c) 6	(d) 5	
36.	If A and B product.	are single digit	numbers, then	in the following	
		$ \begin{array}{c} A & 4 & A \\ \times & A \\ \hline 1 & B & 2 & 9 \end{array} $			
	A + B is equa	l to			
	(a) 7	(b) 9	(c) 5	(d) 3	
37.	7. Tatu had Rs. 16000 in his savings account. He with drew one fourth of it in January, two-fifth of the remainder in February and the rest in March. How much money he with draw in March.				
	(a) Rs. 8800	(b) Rs. 4800	(c) Rs. 4500	(d) Rs. 7200	
38.	. The area of a rectangular plot of land is 225.28 square metres. If the length of the plot be 25.6 m. find its breadth.				
	(a) 8.8 m	(b) 4.4 m Class-	(c) 5.7 m -V-(6)	(d) 9.7 m	

32. The largest number by which the product of three consecutive

(c) 48

(d) 96

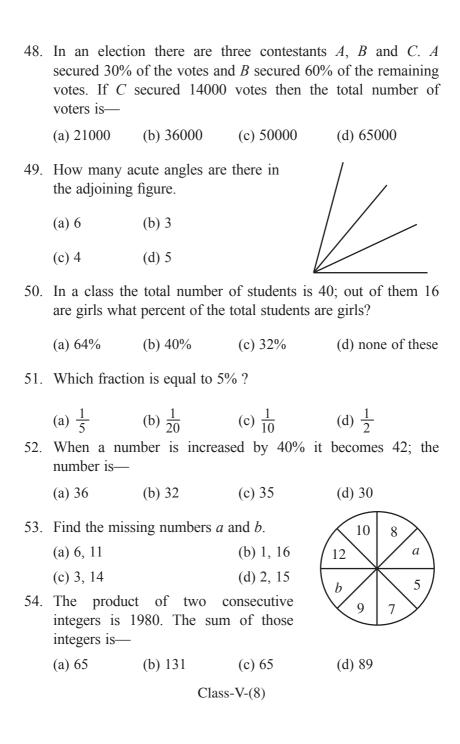
even natural number is always divisible is

33. A pair of prime numbers whose difference is 1 are

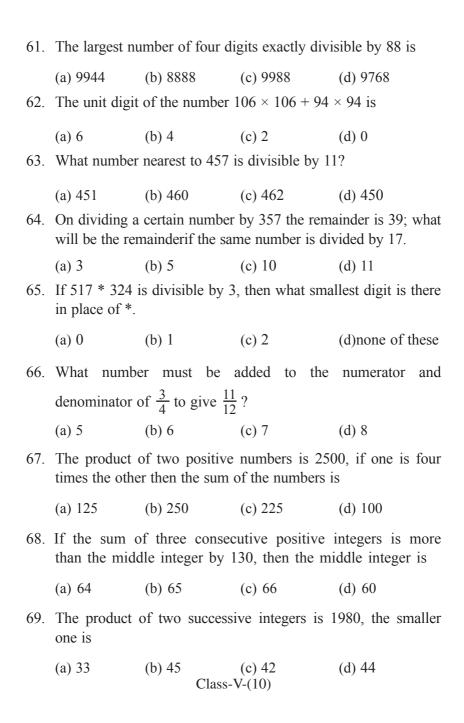
(b) 24

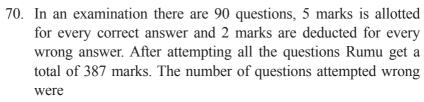
(a) 16

39. A rectangle has a width of 6 metres and an area of metres. The perimeter of the rectangle is				area of 72 square	
	(a) 48 m	(b) 72 m	(c) 36 m	(d) 144 m	
40.	$16 \div (3+5)$	$= \{7 \times 2 + 4 \times 6$	$(5-3(12 \div 6))$	(9+7) =	
	(a) 4	(b) 1	(c) 2	(d) none of these	
41. 20% of what sum is Rs. 15?					
	(a) Rs. 75	(b) Rs. 150	(c) Rs. 100	(d) Rs. 160	
42. Express $6\frac{2}{3}$ % in fraction.					
	(a) $\frac{1}{3}$	(b) $\frac{1}{5}$	(c) $\frac{1}{15}$	(d) $\frac{1}{20}$	
43.	3. What percentage is equal to $\frac{3}{8}$?				
	(a) $\frac{25}{2}$ %	(b) 32%	(c) 75%	(d) $37\frac{1}{2}\%$	
44.	The ratio of two numbers is 10 : 9 by what percent the first number is more than the second.				
	(a) $11\frac{1}{9}$ %	(b) 11%	(c) 10%	(d) $9\frac{1}{11}\%$	
45.	5. The simple interest on Rs. 2500 at 6% for 2 years is				
	(a) Rs. 600	(b) Rs. 250	(c) Rs. 300	(d) Rs. 150	
46.	. Find a number whose 30% is 36.				
	(a) 360	(b) 240	(c) 60	(d) 120	
47.	Dolon's weight is 40 kg and Riya's weight is 35 kg. By what percent is Riya's weight less than that of Dolon?				
	(a) $12\frac{1}{2}$ %	(b) 12%	(c) 15%	(d) 5%	
		Class-	-V-(7)		



55.	Select the coprime numbers from the following pairs.				
	(a) 36, 25	(b) 15, 35	(c) 35, 21	(d) 42, 77	
56. In the number 357 * 25 * the digits in the unit's place thousand's place are rubbed out. If the number is divisible 30 then the greatest value of the number is—					
	(a) 3575250	(b) 3579255	(c) 3578250	(d) 3578255	
57. The length of a rectangle is 10 m longer than its breadth the breadth be 6 m. Find its area.					
	(a) 96 m ²	(b) 60 m ²	(c) 100 m^2	(d) 32 m^2	
58.	58. In the product given below the symbol * represents a who number.				
	_	8 7 * 5 × 5 4 3 * 7 5			
	Find the missing digit.				
	(a) 5	(b) 7	(c) 8	(d) 9	
59.		interest on Rs.		years is Rs. 180,	
	(a) 6%	(b) 2%	(c) 4%	(d) 8%	
60.	0. If 10% profit is achieved by selling an article at Rs. 1001, the the cost price of the article is				
	(a) Rs. 910	(b) Rs. 911 Class	(c) Rs. 901 -V-(9)	(d) none of these	





- (a) 18
- (b) 36
- (c) 9
- (d) 27

$$71. \quad \frac{1\frac{1}{2}}{1+\frac{1}{1+\frac{1}{4}}} =$$

- (a) $\frac{1}{6}$ (b) $1\frac{1}{5}$ (c) 1
- (d) $\frac{5}{6}$
- 72. The unit digit in $584 \times 428 \times 667 \times 213$ is
 - (a) 2
- (b) 3
- (c) 4
- (d) 8

73.
$$888888 \div 888 \div 88 =$$

- (a) 11.3
- (b) 56
- (c) 11.375
- (d)none of these

- 74. The first prime number is
 - (a) 1
- (b) 2
- (c) 3
- (d) 0
- 75. Which of the following set of numbers is in descending order?
 - (a) $\frac{4}{5}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$
- (b) $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$, $\frac{4}{5}$
- (c) $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$
- (d) $\frac{4}{5}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{1}{2}$

$$76. \quad \frac{7+7+\frac{7}{7}}{(7+7+7)\div 7} =$$

- (a) $15\frac{1}{3}$ (b) $\frac{15}{7}$
- (c) 5
- (d) 3

77.	When the capacity of a bucket is 13.5 litres, 12 buyckets of water will fill a tank. how many buckets will be needed to fill the same tank if the capacity of each bucket is 9 litres.						
	(a) 8	(b) 15	(c) 16	(d) 18			
78.	The sum of $\frac{2}{3}$ and its reciprocal is—						
	(a) $\frac{6}{13}$	(b) $2\frac{1}{6}$	(c) $\frac{5}{6}$	(d) $1\frac{5}{6}$			
79.	O. A man has in all Rs. 640 in the denominations of one-rupee, five rupee and ten rupee coins. The number of each type of coins are equal. Find the total number of coins he has.						
	(a) 140	(b) 40	(c) 150	(d) 120			
80.	. The average of five numbers is 18; if one number is excluded there mean is 16. The excluded number is—						
	(a) 25	(b) 26	(c) 17	(d) 27			