

✤ 50 Questions

✤ Time Allowed : 120 Minutes ◆

- Do not open this question paper until the signal is given.
- Please check the CLASS printed on the cover page and the inside is same when you open the booklet.

(Std.8-CMO-2-)

## **General Instructions:**

- 1) All questions are compulsory and carry equal marks.
- 2) There is no negative marking.
- 3) There is only one correct answer hence write one choice only.
- 4) Please avoid cutting/ overwriting etc.
- 5) Return the paper to the invigilator at the end of the examination.
- 6) Write the correct option in the given box.



(Std.8-CMO-4-)

5)Rohit is 40 m South-West of Aarav. Then Ansh is 40 m South-East of Aarav. Then Ansh is in which direction of Rohit?

a] East b] West c] North-East d] South 6) Mohit is thinking of two numbers. Their greatest common factor is 6. Their least common multiple is 36. One of the numbers is 12. What is the other number?

a] 18 b] 16 c] 6 d] 24
7) An acute angle is an angle whose measure is between 0° and 90°. Using the rays in diagram, how many different acute angles can be formed?
a] 12 b] 9

- c] 15 d] 10
- 8) A cylinder and a cone have the same height and the same radius of the base. The ratio between the volumes of the cylinder and the cone is
  a] 1:3 b] 3:1 c] 1:2 d] 2:1
- 9) A man working 8 hours a day takes 5 days to complete a project. How many hours a day must he work to complete it in 4 days?

a] 10 hours b] 11 hours c] 13 hours d] 9 hours **ROUGHWORK** 



![](_page_5_Figure_1.jpeg)

	(Std.	8-CMO-7-)		
21)The max the follo	imum number wing figure is	of squares	in	
a] 14	b] 13	c] 10	d] 9	
22) Farmer	Ramu put a	square f	fence around	his
vegetable	garden to ke	ep the dee	er from eating	his
corn. One	side was 10 n	n in length	. If the posts w	vere
places 2m	apart, how ma	ny posts d	id he use?	
a] 16	b] 20	c] 10	d] 15	
23)What is	the value of	$x^3 + y^3 +$	z <sup>3</sup> – 3xyz, w	hen
x = 2, y = 1	1  and  z = -3 ?			
a] 6	b] 0	c] 2	d] -4	
24) A geom	netrical shape	with no ve	ertices and no	flat
surfaces	sis			
a]cone	b] sphere c	]cylinder	d]hemispher	re
25)ABCD is	a parallelogra	im as show	wn in	C
figure. If	AB = 2AD and	l P is mid-	point	1
of AB, the	2 CPD is equ	al to:		
a] 90°	b] 60°		A P	B
c] 45°	d]135°	1 ( (	• 1• •,	.1
26) Find the $1^{-1}$	e smallest nu	mber of f	ive digits exa	ctly
divisible t	by 16, 24, 36 and	a 54.	11 1 0 0 0 1	
aj 10244	b] 10296	C] 10368	aj 10291	
27) Calculat	the value of $($	-0.4 ) <sup>3</sup> .	م <i>د )</i> م 11	
aju.040	bJ0.064	CJ-0.064	aj-0.640	

28) Multiply x	by 3 and th	en subtract 3 f	rom it. If the	
result is 9, wh	hat is the val	ue of x ?		
a]3	b]4	c]5	d]6	
29) If a cartoon	containing	a dozen mirror	s is dropped,	
which of the	following ca	annot be the ra	tio of broken	
mirrors to un	broken mirr	ors?		
a] 2:1	b]3:1	c]3:2	d]7:5	
30) 0.01 is what percent of 0.1?				
a] $\frac{1}{100}$	b] $\frac{1}{12}$	c]10	d]100	
100 31) The compos	10	on a sum of mo	now for throa	
SI) The compot				
years at 5%	is Rs. 132	4.05. What is	s the simple	
interest?				
a]Rs.1260	b]Rs.1560	c]Rs.1160	d]Rs.1360	
$32)(a + 2b)^2 =$	•			
$a]a^2+2ab+b^2$		$b]a^2+4ab+4b^2$		
c]a <sup>2</sup> +2ab+4b <sup>2</sup>	2	$d]a^2+2ab+2b^2$		
33) The length of	of a rectangle	e is (p+3) cm ar	nd its breadth	
is ( 2p – 5 ] cr	n. If its peri	meter is 26 cm,	find the area	
of the rectang	le in cm².			
a] 13	b] 40	c] 48	d] 56	

![](_page_8_Figure_1.jpeg)

ROUGH	WORK
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39) Between which two consecutive whole numbers √2000 lies ?

a] 41 and 42

c] 43 and 44

b] 44 and 45 d] 45 and 46

40) Which two quadrilaterals have exactly four lines of symmetry?

![](_page_9_Figure_5.jpeg)

- b] 3(1 2a 2b) (1 + 2a 2b)c] 3(1 + 2a - 2b) (1 - 2a + 2b)d] 3(1 - 2a - 2b) (1 - 2a - 2b)
- d] 3(1 2a 2b) (1 2a 2b)
- 42)Trader marks his goods 40% above the cost price and gives a discount of 20% on the marked price. Find his gain percent.

a] 10% b] 12% c] 14%

<b>ROUGH WORK</b>
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d] 15%

![](_page_10_Figure_0.jpeg)

(Std.8-CMO-12-)

47)Jiah is building bird houses. It takes her 5 ½ hours to build four bird houses. Which of following is an equivalent rate ?

a]14 hours to build 18 bird houses

b] 28 hours to build 35 bird houses

c] 11 hours to build 8 bird houses

d] 22 hours to build 28 bird houses

48)Kareena is on the fifth floor of a building. Her car is in the parking garage which is three levels below the ground floor. She gets in the elevator and travels from the fifth floor above ground level to the third floor below ground level. How many floors did she travel?

a] 7 b] 6 c] 4 d] 8 49)Two flower beds in a park are similar rectangles of the same width. The longest side of the large flower bed is 48 cm long, and the longest side of the small flower bed is 16 cm. If L is the area of the large flower bed and S is the area of small flower bed, which equation is true?

a] S = L-16 b] S = L+16 c] S =  $\frac{1}{9}$ L d] S =  $\frac{1}{3}$ L

50) In the series 6 4 1 2 2 8 7 4 2 1 5 3 8 6 2 1 7 1 4 1 3 2 8, how many pairs of successive numbers have a difference of 1 each?

a] Four	b] Five	c] Six	d] Seven	
	ROU	GH WORK		