



CHINMAYA MATHEMATICS

OLYMPIAD

## SAMPLE PAPER



Please fill the following details immediately. Name:

Hall Ticket No.:\_

♦ 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.

## **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.

1)What least number should be added to 1330 to get a number exactly divisible by 43? a] 46 b] 1 c] 3 d] 7					
2)How many times the digit '3' appears in numbers from 1 to 100?					
a] 18	b] 19	c] 20	d] 21		
3)The sum of the prime numbers between 90 and 100 is a] 188 b] 281 c] 376 d] 97					
<ul> <li>4) At 9 o'clock the angle formed between the hands of a clock is called?</li> <li>a] Complete angle</li> <li>b] Reflex angle</li> <li>c] Zero angle</li> <li>d] None of these</li> </ul>					
5) A man walked 3km towards North then 8 km towards South. His position at the end of the walk is? a] 5 km towards East c] 8 km towards North b] 3 km towards South d] 5 km towards South					
6) Solve {12-8 a] 116	80÷[70-5(96÷4-4: b] 4	x3)]} c] 18	d] 16		
ROUGH WORK					

60 km/hr a	travels 90 km and the next 40 hr. What is his	km distance v	with the sp	peed
a] 52 km/h c] 45 km/h		b] 100 km d] 48 km,	,	
, 0	of a rectangle a of rectangle is ngle?			
a] 7 m	b] -21 m	c] 21 m	d] 14 n	n 🗌
9)Complete t a] 80	he series 5,10,20 b] 60	),40, c] 70	d] 90	

10) 10 workers can build wall in 8 days. How long would it take for 16 workers to build the same wall?
a] 3 days
b] 2 days
c] 6 days
d] 5 days

11) If 40.07 x 1.43 = 57.3001, Then 4.007 x 143 = \_\_\_\_? a] 507.3001 b] 57.3001 c] 573.001 d] None of these

,	age of 10 numb by 12, then wha pers? b] 19				
<ul> <li>13) In a school the ratio of the number of boys and girls is 8:5. If there are 160 girls. What is the total number of students in the school?</li> <li>a] 200 b] 250 c] 260 d] 416</li> </ul>					
14) How ma a] 15	ny centuries are b] 56	there in 1565 c] 5	years? d] 65		
<ul> <li>15) A dealer wishes to make a profit of 25% by selling an article. At what price should he sell the article, if the cost price is Rs.200?</li> <li>a] Rs.220 b] Rs.225 c] Rs.250 d] Rs.150</li> </ul>					
16) The value a] 24	e of 96 ÷ 4 + 1020 b] 38	) – 982 = c] 62	? d] 72		
ROUGH WORK					

17) The greate 15, 20 and 35	est 4 digit numb 5 is	per exactly div	visible by 12,	
a] 9999	b] 9660	c] 9832	d] 9860	
18) The cost of of 15 apples?	f 12 apples is R	s.96. What wi	ll be the cost	
<b></b>	b] Rs.102	c] Rs.120	d] Rs.140	
	angle triangle if	•	asures 35º,	
_	asure of other a	•		
a] 65º	b] 55º	c] 45 <sup>0</sup>	d] 300	
20) What num	ıber am I?			
I am a 2 digi	t even number.	•		
I am a comm	non multiple of	6 and 7.		
I have a tota	l of 8 factors.			
a] 35	b] 42	c] 36	d] 84	
21) The rectan	ngle has a bread	lth of 6 m and	l an area of	
72 m <sup>2</sup> . What	is the length of	f the rectangle	e?	
a] 2 m	b] 12 m	c] 30 m	d] 432 m	

22) A fruit se	eller had 69875	oranges. He p	packed ther	n in
boxes, witl	n each box cont	taining 325 ora	anges. Find	the
number of	boxes?			
a] 225	b] 315	c] 215	d] 205	

a] 225 b] 315

23) Which of the following is not associated with the circle?

a] Centre b] Chord c]Diagonal d] Diameter

24) What number should replace the <u>?</u>. So that the sum of the number horizontally, vertically or diagonally be the same.

0					
	10	13	4		
	3	?	15		
	14	5	8		
a] 9	b] 12	·	c] 7	d] 6	
25) Write 6	16 as a prod	uct of	two n	umbers of wh	ich at

or two numbers of which at vine 010 as a produ 1 а

east one nui	mber is a prime	e number?	
a] 616 x 1	b] 56 x 11	c] 4 x 154	d] 8 x 77 🔲

26) If 15x - a] 3	- 12 = 12x + 12, th b] 8	nen what is the v c] 1	value of x? d] 0	
,	nany circles can l points x, y and z b] 2	•	gh three no d] 1	n-
-	alue of 80975 ml i 51			
,	prime number. I 60. Who am I? b] 15	am factor of 65 c] 17	but not a d] 19	
30) Which a] -22 < - c] 22 > 4		statements is tr b] -22 > -44 d] -44 > 22	4	
31) How r cups of v a] 10	nany one thirds a water? b] 20	are needed to m c] 30	ake 10 whc d] 60	ole

<b>ROUGH W</b>	/ORK
----------------	------

32) Which of t a] <u>3</u> 4	hese fraction b] <u>5</u> 12	s is closest to ( c] $\frac{2}{3}$	0? d] $\frac{5}{6}$		
33) Which of t	he following	is the prime f	actorization	of	
140? a] 2x2x2x3x7 c] 2x2x5x7	7	b] 2x2x3 d] 2x3x5			
34) The area volume of th a] 108 cu.m c] 216 sm		a room is 54 height of the b] 216 cu d] 864 cu	room is 4m² ı.m		
35) If x=9 & y= a] 14	=12. Find √x2 b] 17	c] 21	d] 15		
36) An area bo a] minor seg c] major seg	ment	ord and mino b] minor d] semic	arc		
ROUGH WORK					

37) Product of two integers is – 48. If one of the integer					
is -6 then tl a] +1	ne other is b] +288	<b>c</b> ] 0	d] +8		
, I	luct of a fractior ive inverse is	al number a	nd its		
a] 0 c] Number	itself	b] 1 d] none (	of these		
39) If the cost of 15 pens is Rs.148.50. What will be the cost of 1 pen?					
a] Rs.12.80 c] Rs.10.90		b] Rs.8.9 d] Rs.9.9			
40) The perimeter of a square is 144 m, then the side of					
the square a] 34 m c] 44 m	15	b] 36 m d] 38 m			
41) Find the value of 'a' in 6(2a-1)+8 = 14.					
a] -1	b] +1	c] 12	d] 9		
ROUGH WORK					

,	o of the least pri number is b] 2:3	me number t  c] 1:4	o the least d] 1:3	
43) The sum What is the a] 28		nd one fourth ] 34 d] no		
divided by exactly div	e smallest su 7 5,6,7 & 8 lea isible by 9. b] 847			
45) If A:B = 3 a] 5:8	3:4 and B:C = 5: b] 1:2	6, then A:C is c] 3:8	s equal to d] 5:9	
,	0	e		
uj 20	-	GH WORK	u] 00	

