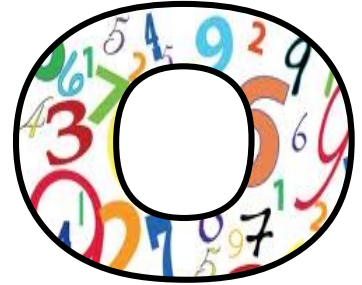
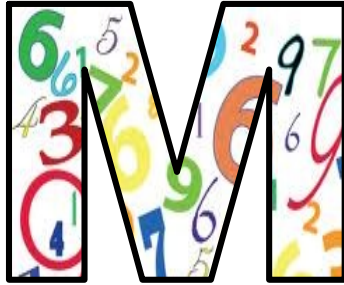
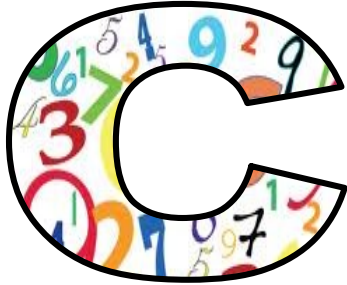


(Std.6-CMO-1-)

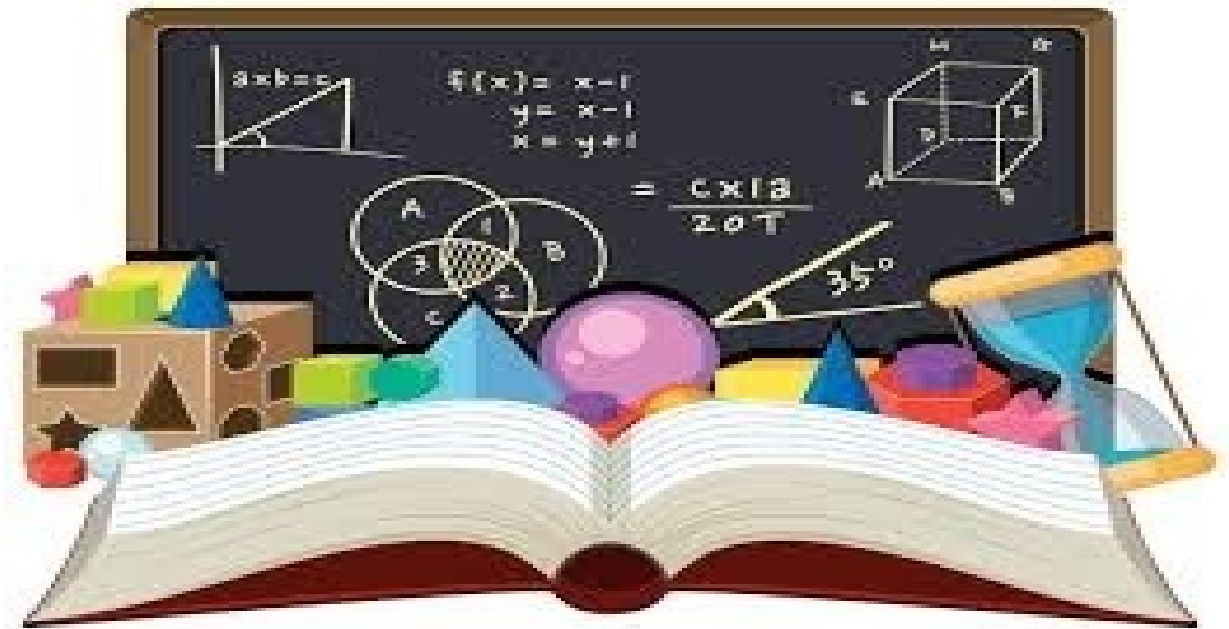


CHINMAYA

MATHEMATICS

OLYMPIAD

**SAMPLE PAPER**



**6**

Please fill the following details immediately

Name: \_\_\_\_\_

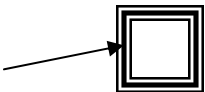
Hall Ticket No.: \_\_\_\_\_

❖ 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
- 4) At 9 o'clock the angle formed between the hands of a clock is called?  
a] Complete angle                      b] Reflex angle                        
c] Zero angle                      d] None of these
- 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                      b] 3 km towards South  
c] 8 km towards North                      d] 5 km towards South
- 6) Solve  $\{12-80\div[70-5(96\div4-4\times3)]\}$   
a] 116                      b] 4                      c] 18                      d] 16

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**ROUGH WORK**

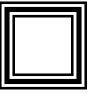
7) A motorist travels 90 km distance with the speed of 60 km/hr and the next 40 km distance with the speed of 40 km/hr. What is his average speed during the journey?

a] 52 km/hr

b] 100 km/hr

c] 45 km/hr

d] 48 km/hr



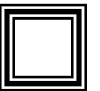
8) The length of a rectangle is three times its breadth and the area of rectangle is  $147 \text{ m}^2$ . What is the length of the rectangle?

a] 7 m

b] -21 m

c] 21 m

d] 14 m



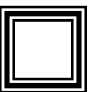
9) Complete the series 5,10,20,40, \_\_\_\_\_

a] 80

b] 60

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  $40.07 \times 1.43 = 57.3001$ , Then  $4.007 \times 143 = \underline{\hspace{2cm}}?$

a] 507.3001

b] 57.3001

c] 573.001

d] None of these



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**ROUGH WORK**

12) The average of 10 numbers is 7. If each number is multiplied by 12, then what is the average of the new set of numbers?

- a] 7                      b] 19                      c] 82                      d] 84



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?

- a] 200                      b] 250                      c] 260                      d] 416



14) How many centuries are there in 1565 years?

- a] 15                      b] 56                      c] 5                      d] 65



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?

- a] Rs.220                      b] Rs.225                      c] Rs.250                      d] Rs.150



16) The value of  $96 \div 4 + 1020 - 982 = \underline{\hspace{2cm}}?$

- a] 24                      b] 38                      c] 62                      d] 72



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**ROUGH WORK**

- 17) The greatest 4 digit number exactly divisible by 12, 15, 20 and 35 is \_\_\_\_\_  
a] 9999                      b] 9660                      c] 9832                      d] 9860
- 18) The cost of 12 apples is Rs.96. What will be the cost of 15 apples?  
a] Rs.12                      b] Rs.102                      c] Rs.120                      d] Rs.140
- 19) In a right angle triangle if an angle measures  $35^\circ$ , then the measure of other angle is \_\_\_\_\_.  
a]  $65^\circ$                       b]  $55^\circ$                       c]  $45^\circ$                       d]  $30^\circ$
- 20) What number am I?  
I am a 2 digit even number.  
I am a common multiple of 6 and 7.  
I have a total of 8 factors.  
a] 35                      b] 42                      c] 36                      d] 84
- 21) The rectangle has a breadth of 6 m and an area of  $72 \text{ m}^2$ . What is the length of the rectangle?  
a] 2 m                      b] 12 m                      c] 30 m                      d] 432 m

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**ROUGH WORK**

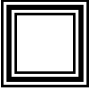
22) A fruit seller had 69875 oranges. He packed them in boxes, with each box containing 325 oranges. Find the number of boxes?

a] 225

b] 315

c] 215

d] 205



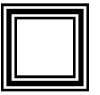
23) Which of the following is not associated with the circle?

a] Centre

b] Chord

c] Diagonal

d] Diameter



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

|    |    |    |
|----|----|----|
| 10 | 13 | 4  |
| 3  | ?  | 15 |
| 14 | 5  | 8  |

a] 9

b] 12

c] 7

d] 6



25) Write 616 as a product of two numbers of which at least one number is a prime number?

a]  $616 \times 1$ b]  $56 \times 11$ c]  $4 \times 154$ d]  $8 \times 77$ 


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**ROUGH WORK**

- 26) If  $15x - 12 = 12x + 12$ , then what is the value of  $x$ ?
- a] 3                      b] 8                      c] 1                      d] 0
- 27) How many circles can be drawn through three non-collinear points  $x, y$  and  $z$ ?
- a] 3                      b] 2                      c] Infinite              d] 1
- 28) The value of 80975 ml in litres is
- a] 8.0975 l                      b] 809.75 l  
c] 8097.5 l                      d] 80.975 l
- 29) I am a prime number. I am factor of 65 but not a factor of 60. Who am I?
- a] 13                      b] 15                      c] 17                      d] 19
- 30) Which of the following statements is true?
- a]  $-22 < -44$                       b]  $-22 > -44$   
c]  $22 > 44$                       d]  $-44 > 22$
- 31) How many one thirds are needed to make 10 whole cups of water?
- a] 10                      b] 20                      c] 30                      d] 60

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**ROUGH WORK**



32) Which of these fractions is closest to 0?

a]  $\frac{3}{4}$

b]  $\frac{5}{12}$

c]  $\frac{2}{3}$

d]  $\frac{5}{6}$



33) Which of the following is the prime factorization of 140?

a]  $2 \times 2 \times 2 \times 3 \times 7$

b]  $2 \times 2 \times 3 \times 5$

c]  $2 \times 2 \times 5 \times 7$

d]  $2 \times 3 \times 5 \times 5$



34) The area of floor of a room is  $54 \text{ m}^2$ . Find the volume of the room if the height of the room is  $4\text{m}$ ?

a]  $108 \text{ cu.m}$

b]  $216 \text{ cu.m}$

c]  $216 \text{ sm}$

d]  $864 \text{ cu.m}$



35) If  $x=9$  &  $y=12$ . Find  $\sqrt{x^2+y^2}$

a] 14

b] 17

c] 21

d] 15



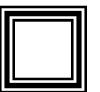
36) An area bounded by chord and minor is called

a] minor segment

b] minor arc

c] major segment

d] semicircle



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**ROUGH WORK**

37) Product of two integers is  $-48$ . If one of the integer is  $-6$  then the other is

- a]  $+1$                       b]  $+288$                       c]  $0$                       d]  $+8$



38) The product of a fractional number and its multiplicative inverse is

- a]  $0$                                       b]  $1$   
c] Number itself                      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                                      b] Rs.8.90  
c] Rs.10.90                                      d] Rs.9.90



40) The perimeter of a square is  $144$  m, then the side of the square is \_\_\_\_\_

- a]  $34$  m                                      b]  $36$  m  
c]  $44$  m                                      d]  $38$  m



41) Find the value of 'a' in  $6(2a-1)+8 = 14$ .

- a]  $-1$                       b]  $+1$                       c]  $12$                       d]  $9$



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**ROUGH WORK**

42) The ratio of the least prime number to the least composite number is \_\_\_\_\_

- a] 1:2                      b] 2:3                      c] 1:4                      d] 1:3



43) The sum of a number and one fourth of it is 40.

What is the number?

- a] 28                      b] 32                      c] 34                      d] none of these



44) Find the smallest such number which when divided by 5,6,7 & 8 leaves a remainder 3, but is exactly divisible by 9.

- a] 1477                      b] 847                      c] 2520                      d] 1683



45) If  $A:B = 3:4$  and  $B:C = 5:6$ , then  $A:C$  is equal to

- a] 5:8                      b] 1:2                      c] 3:8                      d] 5:9



46) The ratios of angle of triangle are 1:3:5. Find the difference between the measure of largest and smallest angles.

- a]  $20^{\circ}$                       b]  $100^{\circ}$                       c]  $60^{\circ}$                       d]  $80^{\circ}$



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**ROUGH WORK**

- 47) If a scooter runs 320 km on 5 litres of petrol. How much petrol will be needed for 160 km run?  
a] 2 litres      b] 3 litres      c] 2.5 litres      d] 3.5 litres
- 48) Complete the series 0.2, 0.04, 0.008, \_\_\_\_\_   
a] 0.00016      b] 0.0016      c] 0.016      d] 0.16
- 49) Cost of table is more than chair by Rs.350. If the cost of 3 chairs and 4 tables is Rs.2450. What is the cost of a table?  
a] Rs.500      b] Rs.150      c] Rs.300      d] Rs.450
- 50) An athlete runs daily 5 rounds of the ground having radius 350 m. How many km does athlete runs daily?  
a] 45 km      b] 35 km      c] 11 km      d] 32 km

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**ROUGH WORK**