

**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 

1) Arrange the digits 6, 4, 3, 2 in such a way that it forms a number that becomes 3200 rounded to nearest 100.

- a]3246      b]3264      c]3426      d]3462



2) The sum of two like fractions is 1 and their difference is  $\frac{1}{7}$ . What are the two fractions?

- a]  $\frac{1}{7}$ ,  $\frac{2}{7}$       b]  $\frac{6}{14}$ ,  $\frac{8}{14}$   
c]  $\frac{9}{14}$ ,  $\frac{8}{14}$       d]  $\frac{1}{7}$ ,  $\frac{3}{7}$



3) What smallest number must be subtracted from 29239 to make it completely divisible by 4?

- a]7      b]4      c]1      d]3



4) If 6 kg of cucumber and 8 kg of carrots cost Rs.186 and the cost of 1 kg of cucumber is Rs.15, what is the total cost of 2 kg of cucumber and 3 kg of carrots?

- a]Rs . 50      b]Rs. 60      c]Rs. 66      d]Rs. 70



5) Which of the following Roman numerals is greatest?

- a]MCL      b]CM      c]MDC      d]MDL

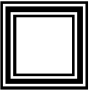


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**ROUGH WORK**

6) Tamanna is 6 years old. Her mother's age is 4 years more than 5 times Tamanna's age. How old is her mother ?

- a]34 years      b]30 years      c]45 years      d]40 years



7) Heena had a packet of sweets . She ate 5 and gave rest of the sweets to 8 girls. The 1<sup>st</sup> girl took 1 sweet , the 2<sup>nd</sup> girl took 3 sweets, the 3<sup>rd</sup> girl took 5 sweets, and so on. How many sweets were there in the packet ?

- a]60 sweets      b]69 sweets      c]65 sweets      d]67 sweets



8) A horse ride runs 3 times a day . It opens 4 days a week. It has 6 cars , each of which can hold 2 people. How many people can ride the horse ride in one week ?

- a]100              b]150              c]154              d]144



9) Leena and her mother made a quilt. They used 56 squares and made 8 rows. How many squares are in each row?

- a] 6              b] 7              c] 8              d] 9



10) School closed on 4<sup>th</sup> April and reopened on 5<sup>th</sup> June. How many days were the school closed?

- a]60              b]62              c]65              d]30



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**ROUGH WORK**

11) I am a three digit number. When a first digit is multiplied with the second digit, the product is 1 and when the third digit is multiplied with the second digit , the product is also 1. Then what number am I ?

- a]111                      b]121                      c]112                      d]211



12) Find the sum of the place values of 8's in 830821.

- a]800800                      b]8080                      c]808000                      d]800000



13)What is the predecessor of the largest 7 – digit number formed using the digits 0,1,2,3,4,5,and 6?

- a]6543210    b]654329  
c]6543209    d]6543211



14) How many times does the digit 6 appears between 1 and 100 ?

- a]19                      b]20                      c]21                      d]18



15)By how much is the sum of 30980 and 14270 less than the sum of 54200 and 20180 ?

- a]29130                      b]17310                      c]9310                      d]9130



16)How many 3 digit numbers are there ?

- a]999                      b]899                      c]900                      d]800



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**ROUGH WORK**

17)What is the product of the place values of the two 7's in 73071 ?

- a]49                      b]4900                      c]4900000                      d]49000



18)What is the equivalent of 40 thousands and 4 ones ?

- a]40004                      b]4004                      c]404                      d]40040



19) Madan earns Rs 12100 in 10 months . What is his monthly earnings to the nearest hundreds ?

- a]Rs 1200                      b]Rs 1210                      c]Rs 1300                      d]Rs 1000



20)Four students Pandu , Kittu , Sweety and Chintu wrote Roman numeral on their slates as shown

XXXII                      XXXIX                      XXV                      XVIII

Pandu                      Kittu                      Sweety                      Chintu

Who wrote the highest number?

- a]Pandu                      b]Kittu                      c]Sweety                      d]Chintu



21)The place value of 5 in 45327 is

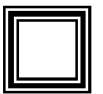
- a] 5000                      b] 50                      c] 500                      d] 5327

22)Krishna goes to the market with Rs.1500 and buys two of these items

Bag of Rs 498 , Shoes of Rs 809 , Dress of Rs.1015

How much money will be left with him?

- a]Rs.324                      b]Rs.163                      c]Rs. 293                      d]Rs.193



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**ROUGH WORK**

23)The same number is missing from each box in the sum given.

$$\begin{array}{r} 8 \dots 6 \ 1 \\ 6 \ 8 \ 2 \ 9 \\ + \quad \dots \ 3 \ 6 \\ \hline 1 \ 5 \ 7 \ 2 \ 6 \end{array}$$

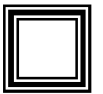
Identify the number.

a]6

b]5

c]4

d]7



24)There are 90 biscuits in box A and 210 biscuits in box B. How many biscuits from box B must be transferred to box A so that there will be twice as many biscuits in box B as in box A ?

a]10

b]100

c]200

d]110



25)The total of three children A,B andC is 117 kg. A is 5 times as heavy as C and B is thrice as heavy as C . Find the total of A and B.

a]104 kg

b]65 kg

c]13 kg

d]39 kg



26)If ☺ ☺ ☺ ☺ ☺ ☺ stands for 30 , what will ☺☺ stand for ?

a]6

b]10

c]12

d]26

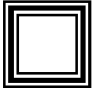


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**ROUGH WORK**

27) How many minutes make a quarter of an hour?

- a]30                      b]60                      c]12                      d]15



28) On the first day of their vacation, Geeta's family drove 628 kilometres. On the second day, they drove 602 kilometres. How many kilometres did they drive in these two days?

- a] 1,226              b] 1,248              c] 1,230              d] 1,330

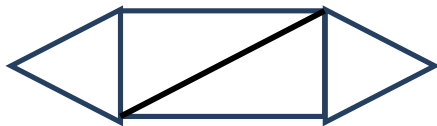
29) Identify a suitable statement for the given blank .

A prime number has \_\_\_\_\_.

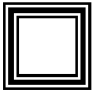
- a] 0, 2, 4, 6 or 8 in its ones place.  
b] 1, 3, 5, 7 or 9 in its ones place.  
c] 2 factors only  
d] 2 multiples only



30) How many line segments are there in the given figure?

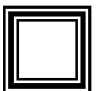


- a]12                      b]9                      c]18                      d]22



31) 1 crore = \_\_\_\_\_

- a]1 million              b]1 billion              c]10 million              d]5 million



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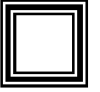
**ROUGH WORK**



32) Which of the following statements can be true ?

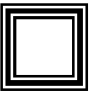
A	B	C	D
2709	2799	2750	2790

- a]A is the largest of all the other numbers.
- b]D is the smallest of all the other numbers.
- c]A is the smallest of all the other numbers.
- d]C is the largest of all the other numbers.



33) If  $\text{flower} \text{ flower} \text{ flower}$  stands for 3,  $\blacktriangle \text{ flower} \text{ flower}$  stands for 7,  $\text{**} \text{**}$  stands for 20,  $\square$  stands for 100, then  $\square \square \square \square + \text{**} \text{**} \text{**} \text{**} + \blacktriangle \blacktriangle \blacktriangle + \text{flower} \text{ flower} \text{ flower} \text{ flower}$  stands for \_\_\_\_\_

- a]400
- b]459
- c]404
- d]467

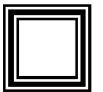


34)The given table shows the number of balls John has in each of three jars .

Jar	Number
A	121
B	37
C	180

Which number is closest to the total number of balls in the three jar ?

- a]240
- b]340
- c]440
- d]540



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**ROUGH WORK**



40) Megha made 6 bowls of fruit salad . She used 1.2 kg of fruits in all . How many grams of fruits were there in each bowl ?

- a]250gm      b]200gm      c]300gm      d]500gm

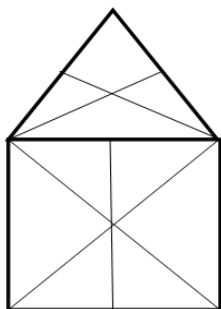


41) \_\_\_\_\_ - 6  $\frac{1}{3}$  =  $\frac{2}{3}$

- a]  $\frac{3}{2}$       b]  $3\frac{3}{3}$       c]2      d]7



42) Count the number of triangles in the given figure



- a]22  
b]11  
c]15  
d]20



43) If  $A = 3$  ,  $B = A + 2$  ,  $C = B - 3$  . Then the expression  $A + B \times C = ?$

- a]17      b]13      c]16      d]10



44) If a zero is placed exactly in middle of the digits of the number 4783 , the new number formed will be greater than the original number by ?

- a]42000      b]42300      c]47083      d]42483



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**ROUGH WORK**

- 45) At which of the following times is the angle between the hour hand and the minute hand an obtuse angle?  
a] 3:00                      b] 6:30                      c] 9:30                      d] 2:00
- 46) The longest chord of the circle is 12 cm . Find the length of its radius ?  
a] 24cm                      b] 12cm                      c] 6cm                      d] 9cm
- 47) Of the given numbers , Find the sum of perfect square numbers.  
81 , 42 , 16 , 39 , 64 , 49 , 85  
a] 210                      b] 166                      c] 376                      d] 161
- 48) Compare 152 weeks \_\_\_\_\_ 2 years 50 weeks  
a] >                      b] <                      c] =                      d] +
- 49) If  $17 - 3K = 2$  , what is the value of K?  
a] 15                      b] 5                      c] 4                      d] 6
- 50) How many five rupee notes will make Rs fifty thousand five hundred and five ?  
a] 1010                      b] 111                      c] 10101                      d] 1100

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**ROUGH WORK**