

CHINMAYA MATHEMATICS OLYMPIAD

SAMPLE PAPER

5

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) $40 \times 20 \times 30 \times 0$ is equal to
a) 240000 b) 24000 c) 0 d) 240
- 2) The cost of a notebook is Rs. 390. What does it cost for 7 such books?
a) 2730 b) 2830 c) 2130 d) 2230
- 3) Which of these following number is not a multiple of 4 ?
a) 8432 b) 7634 c) 5444 d) 4384
- 4) The answer of one of the following options is 10. Which is that?
a) $17 - 5 + 2$ b) $17 + 2 - 5$
c) $17 - (5 + 2)$ d) $(17 - 5) + 2$
- 5) Identify the numbers which are non co-primes.
a) 11,19 b) 93 , 32 c) 93, 30 d) 50,39
- 6) The predecessor of smallest 8 – digit number is
a) 99,99,999 b) 99,99,991
c) 10,00,00,000 d) 1,00,00,000

ROUGH WORK

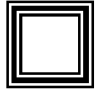
7) $21 \div 7 + 16 - 5 \times 3$

a] 9

b] 8

c] 4

d] 2



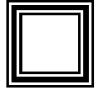
8) Two prime numbers which differ by 2 are_____.

a] Composite number

b] Twin prime number

c] Even number

d] Prime number



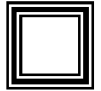
9) H.C.F of 36 and 63 is

a]19

b]10

c]9

d]18



10) Complete the pattern

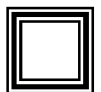
7 , 16 , 35 , 74 , _____

a]152

b]153

c]163

d]148



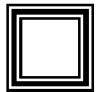
11) Absolute value of - 58 is

a]58

b]-58

c]0

d]1



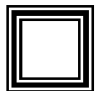
12) The set of negative numbers and whole numbers are called _____.

a] Natural number

b]Integers

c] Positive number

d] Zero



ROUGH WORK

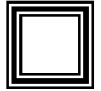
13) Add $68 + (-68) + 68 + (-8)$

a] 60

b] 68

c] 70

d] 50



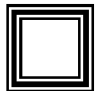
14) Six friends (A, B, C, D, E and F) are sitting in a circle and are facing the centre of the circle. A is between B and C. D is between E and F. B and E are opposite to each other. Who is sitting opposite to C?

a] E

b] A

c] D

d] F



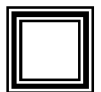
15) A polygon is a 2-D closed figure made of

a] 2 line segments

b] more than 2 line segments

c] less than 2 line segments

d] exactly 3 line segments



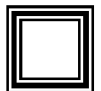
16) One million is 1 followed by

a] 6 zeros

b] 4 zeros

c] 5 zeros

d] 7 zeros



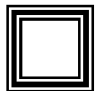
17) Which of the following is a prime triplet?

a] 5, 7, 9

b] 7, 9, 11

c] 3, 5, 7

d] all of these

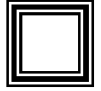


ROUGH WORK

18) If $99 \times 99 = 9801$ and $999 \times 999 = 998001$, then 9999800001 is the product of ?

a] 99999×99999

b] 9999×9999



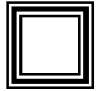
c] 99999×9999

d] 999999×99999

19) Expressing 16 as a sum of two odd primes, we get

a] $1 + 15$

b] $9 + 7$



c] $3 + 13$

d] all of these

20) $1000 - 111 + 11 + 10$ is

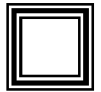
a] 900

b] 910

c] 901

d] 1109

21) What is $\frac{301}{129}$ in the lowest terms ?



a] $\frac{2}{5}$

b] $\frac{13}{17}$

c] $\frac{7}{3}$

d] $\frac{9}{4}$

22) Find the fourth product in the following pattern :

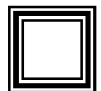
$$6 \times 7 = 42$$

$$66 \times 67 = 4422$$

$$666 \times 667 = 444222$$

a] 44442222

b] 4442222



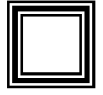
c] 444442222

d] 444422

ROUGH WORK

29) Vini can type 28 words per minute. At this rate, how many words can Vini type in 5 minutes?

- a]140 b]130 c]143 d]141



30) There are 7405 students in a school. Out of these 2668 are boys. How many girls are there in that school?

- a]4737 b]4537 c]3273 d]3372



31)What will be the next in the series?

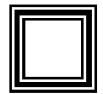
258, 308, 458, , ,

- a]588,688,788 b]788, 588,988,
c]689, 590, 791 d]508, 658, 708



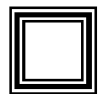
32)Perimeter of a circle is called its

- a] circumference b]area
c] diameter d] radius



33) The sum of the 4 angles of a quadrilateral is

- a] 180° b] 360° c] 90° d] 60°

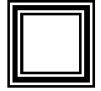


ROUGH WORK

34) In ascending order : $\frac{1}{4}$, $\frac{1}{9}$, $\frac{1}{6}$, $\frac{1}{3}$ will be

a) $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{9}$, $\frac{1}{3}$

b) $\frac{1}{9}$, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{3}$



c) $\frac{1}{4}$, $\frac{1}{9}$, $\frac{1}{3}$, $\frac{1}{6}$

d) $\frac{1}{3}$, $\frac{1}{9}$, $\frac{1}{6}$, $\frac{1}{4}$

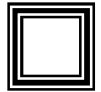
35) Find the value represented by \square in the 6- digit number 4 5 8 $\square\square\square$. The number is the smallest and is divisible by 3 , 4 and 5.

a) 100

b) 105

c) 101

d) 125



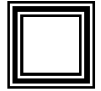
36) Playing dice generally come in the shape of

a) rectangle

b) square

c) cube

d) cuboid



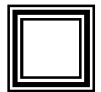
37) The longest chord of a circle is

a) angle

b) arc

c) diameter

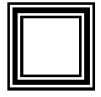
d) radius



ROUGH WORK

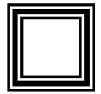
38) If 5 cm and 6 cm are the two sides of a triangle ,
then the length of third side may be

- a] 4 cm b]11 cm c] 12 cm d]30 cm



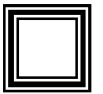
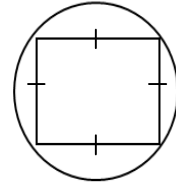
39)A set of a circle with a common centre and
different radii are called

- a] concentric circle b]radii
c] designs d]pattern



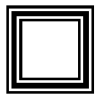
40)What is the figure inside the circle called?

- a] Kite b] Square
c] Rectangle d] Rhombus



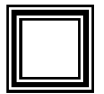
41)Volume of a cuboid with l = 5 cm, b = 3 cm,
h = 8 cm is

- a] 120 cm b] 40 cc c] 15 cc d]220 cm



42)0.002 x 0.05 is equal to

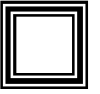
- a] 0.00100 b]0.01000 c] 0.0001 d]0.001



ROUGH WORK

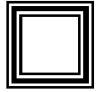
43) Find the pair of months whose sum is 62 days?

- a] January- February b] April- May
c] July-August d] October-November



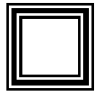
44) In $780 \times a = 1716 \times b$, find the smallest value of a and b.

- a] $a = 11$, $b = 5$ b] $a = 2$, $b = 1$
c] $a = 5$, $b = 11$ d] $a = 1$, $b = 2$



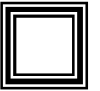
45) The HCF of two co-prime is

- a] 1 b] $>$ then them
c] $<$ then them d] 0



46) A vessel contains 5 litre of milk. If 1 litre 550 ml milk is taken out of it, how much milk is left in the vessel?

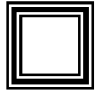
- a] 3 / 550 ml b] 3 / 450 ml
c] 3 / 460 ml d] 3 / 560 ml



ROUGH WORK

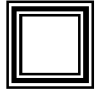
47) The angle between two perpendicular line is

- a] 180° b] 30° c] 90° d] 60°



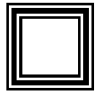
48) A is a prime number. $A + 6$; $A + 8$, $A + 12$; $A + 14$ are also prime numbers. What is A ?

- a] 9 b] 5 c] 7 d] 3



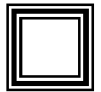
49) The number of year on a decade is

- a] 5 b] 10 c] 15 d] 20



50) Round off 497.78 to the nearest tenth

- a] 497.7 b] 497.8 c] 497.79 d] 497.77



ROUGH WORK