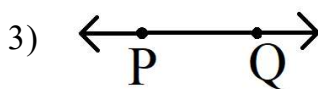
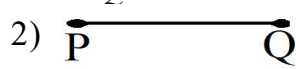
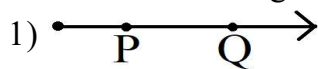


CLASS - VII

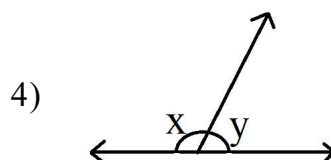
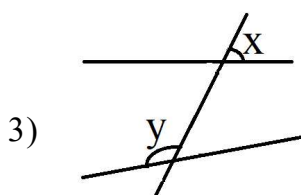
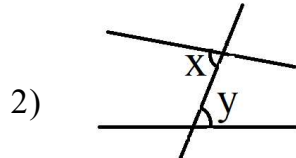
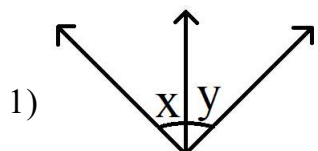
- 1) The mode of the data 2, 4, 6, 8, 10, 12, 14,2024 is
 1) 2 2) 1012 3) 2024 4) None
- 2) $(2024) \times (2023) \times (2022) \times \dots \dots \dots (-2) \times (-3) \times (-4) = \underline{\hspace{2cm}}$
 1) ∞ 2) $-\infty$ 3) 0 4) None
- 3) The additive inverse of $(-1)^{2024} a$ is _____
 1) a 2) -a 3) $\frac{1}{a}$ 4) $-\frac{1}{a}$
- 4) Which of the following does not satisfies the relation $a \div b = -2$
 1) $(-2024 \div 1012)$ 2) $(-2024 \div -1012)$
 3) $2024 - 2026$ 4) None
- 5) Which of the following is defined
 1) $\frac{2024}{1012-1012}$ 2) $-\frac{2024}{24-24}$ 3) $\frac{15-15}{27-27}$ 4) $\frac{20-20}{2024}$
- 6) $\frac{3}{4}$ of $(2024 \div 2024 \times 2024 + 2024 - 2024) = \underline{\hspace{2cm}}$
 1) 2024 2) 1012 3) -1518 4) 1518
- 7) $99.5 \times 99.5 = \underline{\hspace{2cm}}$
 1) 10000.25 2) 9999.25 3) 9900.25 4) 9900.5
- 8) Next two numbers in the series 45, 54, 51, 60, 57, 66,
 1) 75, 72 2) 63, 72 3) 72, 75 4) 69, 78
- 9) The mean of first 100 whole numbers
 1) 50 2) 49 3) 49.5 4) 50.5
- 10) If three-fourth of a number x minus 5 gives 4, then the value of x is _____
 1) 4 2) 12 3) 15 4) 6
- 11) Date of birth of Srinivasa Ramanujan
 1) 22nd Dec 1885 2) 14th Mar 1887 3) 22nd Dec 1887 4) 14th Mar 1885

12) Which of the following represents the line $\overleftrightarrow{PQ}$



4) None

13) Which of the following angles x, y are linear pair



14) In a special manner : GATE $\rightarrow$ TZGV; CHAIR $\rightarrow$ XSZRI; then EQUAL $\rightarrow$

1) FPVZM

2) DRTBK

3) VKFZO

4) VJFZO

15) If two parallel lines are cut by a transversal each pair of _____ angles are equal.

1) Corresponding

2) Alternate Interior

3) 1 and 2

4) None

16) Which of the following has no end points

1) Ray

2) Line

3) Line segment

4) Angle

17) In which triangle, median and altitudes drawn from any vertex are equal

1) Isosceles

2) Equilateral

3) Scalene

4) None

18) An exterior angle of a triangle is equal to the sum of its _____ angles

1) Interior

2) Opposite

3) Interior opposite

4) None

19) Which of the following set is closed under division

1) $\mathbb{Q}$

2) $\mathbb{R}$

3) $\mathbb{Q} - \{1\}$

4) $\mathbb{Q} - \{0\}$

20) If a, b are two numbers does not satisfies commutative property with respect to multiplication then $(a+b)^2 =$ _____

1) $a^2 + 2ab + b^2$

2) $a^2 + b^2$

3) $a^2 + ab + ba + b^2$

4) None

21) Which of the following is true

- 1) $\frac{2}{3} < \frac{4}{5} < \frac{8}{15}$ 2) $\frac{8}{15} < \frac{4}{5} < \frac{2}{3}$ 3) $\frac{8}{15} < \frac{2}{3} < \frac{4}{5}$ 4) None

22) Which of the following is not a central tendency

- 1) Mean 2) Median 3) Mode 4) Range

23) Which of the following is one of the numbers in a data

- 1) Mean 2) Median 3) Mode 4) None

24) Double bar graph help to compare _____ collections of data at a glance

- 1) 1 2) 2 3) 3 4) None

25) An equation is a condition on a _____

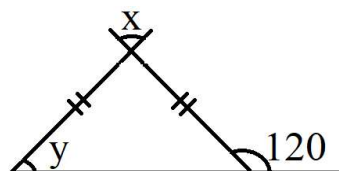
- 1) Number 2) Constant 3) Variable 4) None

26) Which of the following shape stands for corresponding angles

- 1) Z 2) F 3) L 4) A

27) The angles of x, y in the following diagram

- 1) 60, 30 2) 60, 60
3) 60, 45 4) 45, 45



28) The longest side of the right-angled triangle is called _____

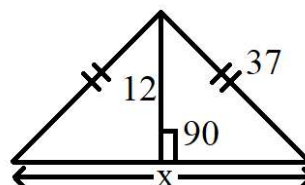
- 1) Opposite side 2) Adjacent side 3) Hypotenuse 4) None

29) The diagonals of a rhombus measure 16cm and 30 cm. If its perimeter is _____

- 1) 17cm 2) 34cm 3) 68cm 4) 51cm

30) Find the value of x in the following diagram

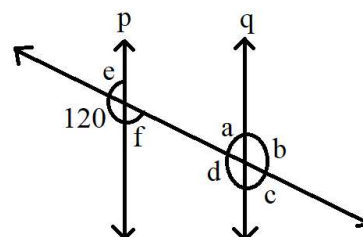
- 1) 37 2) 70
3) 49 4) 25



31) Select the truth statement:

- A) Every rational number is an integer
B) Every integer is a rational number
C) Zero is a rational number
1) A, B, C 2) A, B but not C 3) B, C but not A 4) A, C but not A

- 32) The base angles of an isosceles triangle have _____ measure
 1) Different 2) Equal 3) Can not say 4) None
- 33) “The diagonal of a rectangle produce by itself the same area as produced by its length and breadth” is called _____ theorem.
 1) Euclid 2) Ramanujan’s 3) Euler’s 4) Baudhayan
- 34) If 12% of whole quantity is 1080 then whole quantity is
 1) 9000 2) 8000 3) 10800 4) 1296
- 35) A cricket team played 20 matches in a season. If they won 40% of them. How many matches did they loss?
 1) 8 2) 10 3) 12 4) 15
- 36) 2% of 1 hour = _____ seconds
 1) 36 2) 72 3) 108 4) 120
- 37) The additive inverse of multiplicative identity is _____
 1) 36 2) [-4% of 25] 3) 4% of 25 4) None
- 38) A vehicle covers a distance of 43.2kms with 2.4 liters of petrol. How much distance will it cover with 9.5 liters petrol ?
 1) 18 2) 180 3) 171 4) 95
- 39) $11^1 = 11$, $11^2 = 121$, $11^3 = 1331$, $11^4 =$ _____
 1) 1441 2) 14641 3) 14541 4) 14441
- 40) Changing side is called _____
 1) Transfer 2) Transpose 3) Transposing 4) Change
- 41) T, X, Y are examples for which lines.
 1) Common 2) Parallel 3) Intersecting 4) Perpendicular
- 42) If $p \parallel q$ in the following diagram then
 $a + c + e + f - b - d =$ _____
- 1) 120 2) 240
 3) 0 4) 60



- 43) The maximum number of medians for any given triangle
1) 1 2) 2 3) 3 4) None
- 44) In a special arrangement: If DARK $\rightarrow$ EZSJ; BEAT $\rightarrow$ CDBS then ZERO $\rightarrow$
1) ADSN 2) YEQP 3) YDQN 4) AFSP
- 45) Ramu bought a sweater and saved 200 rupees when a discount of 25% was given.
What was the price of sweater after discount ?
1) 800 2) 1000 3) 400 4) 600
- 46) Which of the following pairs represent the different rational numbers
1) $-\frac{16}{20}, -\frac{20}{25}$ 2) $-\frac{2}{-3}, \frac{2}{3}$ 3) $-\frac{3}{5}, -\frac{12}{20}$ 4) $-\frac{7}{21}, \frac{3}{9}$
- 47) Which of the following numbers are in ascending order
1) $-\frac{3}{5}, -\frac{2}{5}, -\frac{1}{5}$ 2) $-\frac{1}{3}, -\frac{2}{9}, -\frac{4}{3}$ 3) $-\frac{3}{7}, -\frac{3}{2}, -\frac{3}{4}$ 4) $-\frac{1}{5}, -\frac{2}{5}, -\frac{3}{5}$
- 48) Next number in the series: 0, 6, 24, 60, 120,
1) 150 2) 220 3) 210 4) 180
- 49) A car runs 16kms using 1 litre petrol. How much distance will it cover using
 $2\frac{3}{4}$ litres of petrol.
1) 24 kms 2) 176 kms 3) 44 mts 4) 44 kms
- 50) $2024\frac{1}{2} \div 2\frac{1}{2024} =$ _____
1) 2024 2) 4048 3) $\frac{1}{1012}$ 4) 1012
- 51) $100.01 \times 1.1 =$ _____
1) 11.0011 2) 110.011 3) 1100.11 4) None
- 52) A car covers a distance of 89.1 kms in 2 hours 12 minutes. The average distance
covered by it in 2 hours is _____
1) 40.5 kms 2) 40.5 mts 3) 81 mts 4) 81 kms

- 53) $\frac{2024}{0.02} = \underline{\hspace{2cm}}$
1) 1012 2) 10.12 3) 10120 4) 101200
- 54) The range of first 100 whole numbers
1) 100 2) -100 3) 99 4) -99
- 55) The mean of first 2025 whole numbers
1) 1012.5 2) 1012 3) 1013 4) 1013.5
- 56) The mode of the data 2, 2, 4, 4, 6, 6 is $\underline{\hspace{2cm}}$
1) 2 2) 4 3) 6 4) None
- 57) $\underline{\hspace{2cm}}$ year is declared as “Year of Mathematics”
1) 2024 2) 2020 3) 2014 4) 2012
- 58) If A, B are two right angles then. They are $\underline{\hspace{2cm}}$ angles
1) Complementary 2) Stright 3) Supplementary 4) Reflex
- 59) Which of the following pair of angles are complementary
1) 100, 80 2) 45, 45 3) 200, 70 4) None
- 60) $\frac{2024 \times 79.76 + 2024 \times 20.24}{1012 \times 159.56 - 1012 \times 59.56} = \underline{\hspace{2cm}}$
1) 1 2) 2 3) 1012 4) 2024

