

CLASS - VII

- 1) Which of the following set is closed under division.
 1) R 2) $R - \{0\}$ 3) Q 4) $W - \{0\}$
- 2) If $x, x+1, x+2, x+3$ are respectively units, tens, hundreds and thousands places. Number of such 4 digit numbers _____
 1) 5 2) 7 3) 8 4) 4
- 3) In a class test +3 marks given for every correct answer and -2 marks for incorrect answer and no mark for not attempting question. A student scores -9 marks in the test, though he got 7 right answers. How many questions has he attempted incorrectly.
 1) 13 2) 14 3) 15 4) 16
- 4) Two digital number ab is a prime then ba is also a prime. Number of such primes..
 1) 6 2) 4 3) 5 4) 3
- 5) $(-1)^{2025} + (-1)^{2026} =$ _____
 1) 2 2) -2 3) ± 1 4) 0
- 6) If $x : y = 1 : 2$ then $(2x + 3y) : (x + 4y) =$
 1) $4 : 9$ 2) $8 : 9$ 3) $9 : 8$ 4) $9 : 4$
- 7) Values of x, y in the series $\frac{1}{3}, \frac{2}{7}, \frac{3}{13}, \frac{4}{21}, \frac{x}{y}, \frac{6}{43}$
 1) 5, 36 2) 5, 26 3) 5, 31 4) 5, 30
- 8) $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$ which is greater ?
 1) $\frac{1}{2}$ of $\frac{6}{7}$ 2) $\frac{2}{3}$ of $\frac{3}{7}$ 3) $\frac{6}{7}$ of $\frac{3}{7}$ 4) None
- 9) Ramu plants 2025 saplings, in a row, in his garden. The distance between 2 adjacent saplings is $\frac{3}{4}$ mts. The distance between the first and the last sapling.....
 1) 2025 mts 2) 2024 mts 3) 1518.75 mts 4) 1518 mts

- 10) $7.75 \times \frac{1}{0.25} + 63.6 \div 6 = \underline{\hspace{2cm}}$
1) 32.6 2) 41.6 3) 47 4) 46
- 11) Express 4020 grams in Kilo grams.
1) 4.2 2) 0.402 3) 4.02 4) 40.2
- 12) A car cover a distance of 77.5 kms in 2 hours 30 minutes. How much distance it travel in 1 hour with same speed?
1) 33.70 kms 2) 31 kms 3) 38.75 kms 4) 35 kms
- 13) The average of 0.5, 0.75, 0.35, 0.12, 0.72 and p is 1 then p =
1) 3.65 2) 3.66 3) 3.56 4) 3.55
- 14) What should be added to $\frac{1}{2} + \frac{1}{3} + \frac{1}{5}$ to get 4 ?
1) $\frac{49}{15}$ 2) $\frac{89}{30}$ 3) $\frac{98}{30}$ 4) $\frac{81}{30}$
- 15) A rope of 18.44 mts length is divided into 4 equal pieces. The length of 10 such pieces is
1) 27.66 mts 2) 184.4 mts 3) 45.1 mts 4) 46.1 mts
- 16) Area of a rectangle is 33.75 sq.cms. and its length is 15 cms. Its perimeter is ...
1) 18.75 cm 2) 37.5 cm 3) 34.5 cm 4) 35.4 cm
- 17) The mode of 2, 3, 4, 2, 6, 4, 9, 2, 4 is
1) 2 2) 4 3) 6 4) 2 and 4
- 18) The rain fall (in mm) in a city in a certain week was recorded as 0, 12.2, 2.1, 0.7, 20, 6.1, 0.9. The number of days rain fall less than mean rain fall.
1) 5 2) 4 3) 3 4) 2
- 19) 20, 19, 25, 23, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20 In this data
 $3[\text{Median}] - 2[\text{Mean}] = \underline{\hspace{2cm}}$
1) 21 2) 20 3) 19 4) 18
- 20) In any given data is always one of the numbers in a data.
1) Mean 2) Median 3) Mode 4) Range

- 21) The mean of 11 observations is 11. If one observation 11 is deleted from it.
The mean of remaining observations is
- 1) 10 2) 11 3) 12 4) 9
- 22) The median of the first 25 prime numbers is
- 1) 37 2) 41 3) 43 4) 31
- 23) The mathematician who introduced Logarithms and System of decimal fractions..
- 1) Archimedes 2) John Napier 3) Heron 4) Gauss
- 24) Which of the following is not effected by extreme values for the given data.
- 1) Mean 2) Median 3) Range 4) None
- 25) Write the following statement in the form of a equation: We get 6, when we subtract 2 from one fifth of a number x.
- 1) $2 - \frac{x}{5} = 6$ 2) $\frac{x}{5} - 2 = 6$ 3) $\frac{x-2}{5} = 6$ 4) $\frac{2-x}{5} = 6$
- 26) A rectangular plot was fenced with a wire of length 750 mts. The length of the plot exceeds the breadth by 5 mts . The length of the plot is
- 1) 185 mts 2) 195 mts 3) 190 mts 4) 180 mts
- 27) One third of Raman's marks in Maths exceeds half of his marks in English by 30. If he got 240 marks in 2 subjects together. How many marks did he get in English
- 1) 180 2) 60 3) 150 4) 90
- 28) If $a^2 + b^2 = 117$ and $ab = 54$ then $\frac{a+b}{a-b} = \underline{\hspace{2cm}}$
- 1) 5 2) 15 3) 3 4) 25
- 29) An employer pays Rs. 600 for each day to a worker when he works and forfeits Rs. 100 for each day when he is idle. At the end of 60 days, the worker got Rs. 8000. How many days did the worker remain idle
- 1) 20 2) 40 3) 30 4) 15
- 30) If $\frac{a}{x} + \frac{y}{b} = 1$ and $\frac{b}{y} + \frac{z}{c} = 1$ then $\frac{x}{a} + \frac{c}{z} = \dots\dots\dots$
- 1) 0 2) $\frac{b}{y}$ 3) 1 4) $\frac{y}{b}$

31) If $(2a + 3b)(2c - 3d) = (2a - 3b)(2c + 3d)$ then

- 1) $\frac{a}{b} = \frac{c}{d}$ 2) $\frac{a}{d} = \frac{c}{b}$ 3) $\frac{a}{b} = \frac{d}{c}$ 4) $\frac{b}{a} = \frac{c}{d}$

32) The sum of $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} =$ _____

- 1) $6/7$ 2) $7/6$ 3) $41/42$ 4) $1/7$

33) Which of the following angle is equal to its complement.

- 1) 90° 2) 45° 3) 40° 4) 50°

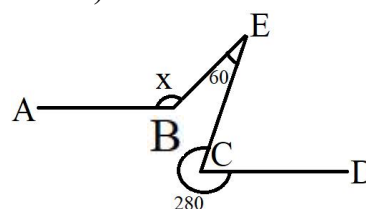
34) If one of the angles of a supplementary angle is double of it, then the smallest angle is _____

- 1) 60° 2) 120° 3) 30° 4) 80°

35) In the following diagram if

$AB \parallel CD$ then $x^\circ =$ _____

- 1) 120 2) 160
3) 100 4) 130



36) The figure  represents _____ lines

- 1) Intersecting 2) Parallel 3) Coincident 4) None

37) If the tree is broken at a height of 10mts from the ground and its top touches the ground at the distance of 24mts from the base of the tree then the height of the original tree is _____ mts

- 1) 18 2) 36 3) 34 4) 22

38) In the $\triangle PQR$, $\angle P = 90^\circ$ D lies on QP produced and $DE \perp QR$ intersecting

QR at E and PR at F. If $\angle PFE = 120^\circ$ then $\angle QRP =$ _____

- 1) 60° 2) 40° 3) 30° 4) 20°

39) Which of the following statement is false

- A) Sum of any 2 sides of a triangle is greater than 3rd side
B) Difference of any 2 sides of a triangle is less than 3rd side
C) The altitudes of a triangle are concurrent
D) A triangle may have 2 obtuse angles

- 1) A 2) B 3) C 4) D

- 40) The centroid of the triangle divides each median in the ratio _____
1) 1 : 2 2) 2 : 1 3) 1: 3 4) 3 : 1
- 41) When the price of a product was decreased by 10%, The number of products sold increased by 30% what was the effect of percentage on total revenue.
1) 30% increase 2) 30% decrease
3) 17% increase 4) 17% decrease
- 42) If A earns $33\frac{1}{3}\%$ more than B, How much percent does B earn less than A?
1) 20% 2) 25% 3) $33\frac{1}{3}\%$ 4) 15%
- 43) What percent of 7.2 kg is 18 gms
1) 4% 2) 0.25% 3) 0.20% 4) 5%
- 44) A cricket bats man scored 110 runs which included 3 boundaries and 8 sixes. What percent of runs he scored by running between the wickets on his total score?
1) 45% 2) $54\frac{6}{11}\%$ 3) $45\frac{5}{11}\%$ 4) 55%
- 45) A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. what is the % error in the calculation ?
1) 34% 2) 44% 3) 54% 4) 64%
- 46) Express 12 hours as percent of 4 days
1) 25% 2) 12% 3) 12.5% 4) 30%
- 47) A person incurs 5% loss by selling a watch for Rs. 1140. At what price should the watch be sold to earn 5% profit.
1) 1260 2) 1031.42 3) 1240 4) 1030.24
- 48) The odd one among the series d, f, i, m, q, x
1) m 2) q 3) x 4) None
- 49) $99\frac{48}{49} \times 245 =$ _____
1) 24495 2) 25595 3) 25695 4) 24455

50) If $a = \frac{2}{3}$, $b = \frac{-3}{2}$ then $\frac{a+2b}{a-2b} = \underline{\hspace{2cm}}$

1) $\frac{-11}{7}$

2) $\frac{-7}{11}$

3) $\frac{11}{7}$

4) $\frac{7}{11}$

51) $2025 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} \dots\dots\dots (2026 \text{ times}) = \underline{\hspace{2cm}}$

1) 1013

2) 1012

3) 2023

4) 2000

52) Dr. Kaprekars constant in reverse order.

1) 9217

2) 4761

3) 9271

4) 4716

53) Half of the herd of deer are grazing in the field and three fourth of the remaining are playing. The rest 9 are drinking water in the pond. The number of deer in the herd..

1) 72

2) 60

3) 80

4) 44

54) Multiply the reciprocals of $\frac{1}{4}$ and 3, then add the product to $\frac{1}{12}$, the result is ____

1) $1\frac{5}{12}$

2) $1\frac{12}{13}$

3) $1\frac{1}{2}$

4) 9

55) The mean of 10 observations is 19. If one observation 8 is added to it, then the new mean is _____

1) 19

2) 18

3) 17

4) 20

56) The mean of first (n+1) natural numbers is _____

1) $\frac{n+1}{2}$

2) $\frac{n}{2}$

3) $\frac{n+2}{2}$

4) $\frac{n-1}{2}$

57) In any given data $\frac{\text{Mode} + 2\text{Mean}}{\text{Median}} = \underline{\hspace{2cm}}$

1) 1

2) 2

3) 3

4) 4

58) The unit digit in $(2025)^{2025}$ is _____

1) 0

2) 5

3) 2

4) 1

59) The remainder when 2^{31} is divided by 5

1) 8

2) 4

3) 3

4) 2

60) The difference between the local value and face value of 5 in the numeral 45678

1) 5000

2) 4995

3) 500

4) 495

