

CLASS - VIII

- 1) Which of the following set of numbers is closed under division.
1) N 2) w 3) R 4) none
- 2) Which of the following is negative of -2.
1) -2 2) ± 2 3) $\frac{1}{2}$ 4) 2
- 3) The reciprocal of a +ve number is
1) negative 2) positive 3) \pm 4) none
- 4) The rational number that is equal to its negative.
1) 1 2) 0 3) $\frac{2}{0}$ 4) none
- 5) Which of the following numbers are equal to their own reciprocals.
1) 1 2) -1 3) 0 4) a,b are true
- 6) Which of the following rational number does not lie between $\frac{3}{5}$ and $\frac{3}{4}$.
1) $\frac{97}{160}$ 2) $\frac{98}{160}$ 3) $\frac{99}{160}$ 4) $\frac{96}{120}$
- 7) Which of the following is a linear expression.
1) $2x$ 2) x^2 3) $x + x^2$ 4) $x^2 - x$
- 8) The difference between two numbers is 66 and their ratio is 2 : 5. Then the two numbers are
1) 44,110 2) 11,77 3) 22,88 4) 33,99
- 9) A grand father is ten times older than his grand daughter. He is also 54 years older than her. Their present ages are _____, _____
1) 6,60 2) 8,62 3) 10,64 4) none
- 10) If $0.25(4x-3)=0.05(10x-9)$ then $x =$ ____
1) 2.4 2) 2.0 3) 2.6 4) 0.6
- 11) Present ages of Anu and Raj are in the ratio 4 : 5. Eight years from now the ratio of their ages will be 5:6. Their present ages are
1) 32,40 2) 28,35 3) 20,25 4) 24,30

12) $\frac{x+1}{2x+3} = \frac{3}{8}$ then

1) $x=2$

2) $x=\frac{1}{2}$

3) $x=-2$

4) $x=-\frac{1}{2}$

13) If $\sqrt{x-3} = y$, $\sqrt{y-4} = z$ and $\sqrt{z-5} = 2$ then $x =$ _____

1) 6129

2) 6565

3) 7103

4) 7228

14) The sum of the measures of the external angles of any polygon is ___ degrees.

1) 180

2) 360

3) 270

4) 90

15) The measure of each exterior angle of a regular polygon of 15 sides is ___ degrees.

1) 25

2) 24

3) 27

4) 30

16) Which of the following is a difference between the upperclass limit and lower class limit of the class interval

1) data

2) size

3) raw data

4) none

17) Which of the following shows the height of the bar in the histogram

1) upperlimit

2) lowerlimit

3) frequency

4) none

18) In a histogram the width of bars are ___

1) equal

2) unequal

3) can't say

4) none

19) A circle graph shows the relationship between a whole and its _____.

1) angles

2) sectors

3) parts

4) none

20) $1^3 + 2^3 + 3^3 + \dots + 9^3 =$ _____

1) 43^2

2) 44^2

3) 45^2

4) 46^2

21) If a = digit at the hundreds place

b = digit at the tens place

c = digit at the one's place,

then which of the following is always divisible by 7?

1) $2a+3b+c$

2) $3a+2b+c$

3) $2a-3b+c$

4) $3a-2b+c$

22) Divide the sum of $\frac{-13}{5}$ and $\frac{12}{7}$ by the product of $\frac{-13}{7}$ and $\frac{-1}{2}$, result is ____

- 1) $\frac{-62}{65}$ 2) $\frac{-65}{62}$ 3) $\frac{62}{65}$ 4) $\frac{+65}{62}$

23) If 2791A is divisible by 9, then the missing digit in place of A is ____

- 1) 8 2) 7 3) 6 4) 5

24) Which of the following is not a rational number

- 1) 1 2) $1.\bar{3}$ 3) $\sqrt{9}$ 4) $\sqrt{5}$

25) Rama said “Multiplying my number by 5 and adding 8 to it gives the same answer as subtracting my number from 20”. My number is ____

- 1) 1 2) 2 3) 3 4) 4

26) Exterior angle of an equilateral triangle is

- 1) 60 2) 100 3) 120 4) 80

27) A quadrilateral with exactly two pairs of equal consecutive sides is called

- 1) Parallelogram 2) Trapezium
3) Rectangle 4) Kite

28) Which of the following statement is true

- 1) All rectangles are squares.
2) All Kites are rhombuses.
3) All squares are not parallelograms.
4) All squares are rhombuses and also rectangles.

29) How many measurements are sufficient to draw a unique quadrilateral.

- 1) 4 2) 5 3) 3 4) 6

30) Number of diagonals in a regular n-sided polygon is ____.

- 1) $\frac{n(n+1)}{2}$ 2) $\frac{n(n+3)}{2}$ 3) $\frac{n(n-3)}{2}$ 4) none

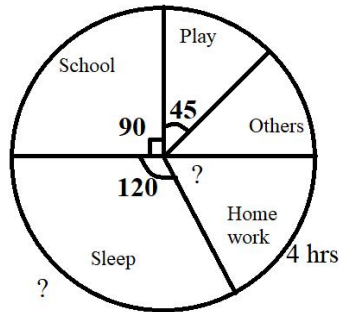
31) Two numbers are said to be in the ratio 3 : 5. If 9 be subtracted from each, they are in the ratio of 12 : 23. The numbers are

- 1) 21,35 2) 33,55 3) 27,45 4) none

- 32) The sum of two numbers is 14 and their difference is 10. The product of the two numbers is ____.
- 1) 24 2) 34 3) 44 4) 64
- 33) If $x + \frac{1}{y} = 1$ and $y + \frac{1}{z} = 1$ then $z + \frac{1}{x} =$ ____
- 1) -1 2) 1 3) 2 4) -2
- 34) The value of $a^3 + b^3 + c^3 - 3abc$ when $a + b + c = 9$ and $a^2 + b^2 + c^2 = 29$ is ____.
- 1) 9 2) 3 3) 27 4) 81
- 35) If $x + y = 2z$ then the value of $\frac{x}{x-z} + \frac{z}{y-z} =$ ____
- 1) -1 2) 1 3) 0 4) None
- 36) If $x < 10$ then $|x - 10| =$ ____
- 1) $x - 10$ 2) $10 - x$ 3) $x + 10$ 4) $-x + 1$
- 37) Which of the following graph is used to display two sets of data on the same graph (one graph paper)
- 1) Bar graph 2) Pie chart 3) Double bargraph 4) None
- 38) If the number of observations= n is odd number then the median is ____ term
- 1) $\left(\frac{n+1}{2}\right)^{th}$ 2) $\left(\frac{n}{2} + 1\right)^{th}$ 3) n^{th} 4) $(n+1)^{th}$
- 39) The perpendicular line segment from any vertex of a triangle to it's opposite side is called ____
- 1) Median 2) Altitude 3) Bisector 4) None
- 40) D.R.Kaprekar was also known as ____
- 1) Anand Ganith 2) Ganith Anand
3) Ganitha Sri 4) Sri Ganith
- 41) A pair of adjacent angles whose sum is ____ are called linear pair of angles.
- 1) 90 2) 180 3) 270 4) 360

- 42) The conjugate angle of 60° is ____
1) 30 2) 120 3) 300 4) 340
- 43) Choose the correct order of signs from the given alternative signs
 $34 \square 2 \square 17 \square 34$
1) $-, -, \times$ 2) $+, +, +$ 3) $-, \div, \times$ 4) $\div, +, =$
- 44) $\{6 \text{ of } 145 \div (3+2)\} \div 2 - 4 \text{ of } 20 = \underline{\hspace{2cm}}$
1) 6 2) 7 3) 8 4) 9
- 45) Next number in the series 3, 5, 8, 13, 21, _____
1) 27 2) 34 3) 31 4) 35
- 46) $4.347 \div 0.09 = \underline{\hspace{2cm}}$
1) 48.3 2) 4.83 3) 0.483 4) 483
- 47) Next number in the series 12, 60, 30, 150, 75, _____
1) 325 2) 150 3) 375 4) 300
- 48) Two numbers are in the ratio 2 : 3 and their difference is 5 then the largest number is ____
1) 10 2) 15 3) 20 4) 30
- 49) Three-fourth of a number is more than one-fourth of the same number by 2.
The number is _____.
1) 2 2) 4 3) 6 4) 8
- 50) A man travels $\frac{4}{5}$ of his journey by train, $\frac{1}{7}$ by bus and the remaining 16kms by auto. Total length of his journey _____ km
1) 280 2) 252 3) 260 4) 262
- 51) If two angles have common vertex, common arm and lie on either side of the common arm, then they are called _____.
1) Adjacent angles 2) Linear pair
3) Complementary angles 4) Supplementary angles

Observe the adjacent pie chart it is about the time spent by a child during a day. Now answer the questions 52 to 54.



- 52) The angle of the sector represents home work is _____ degrees.
 1) 90 2) 45 3) 100 4) 60
- 53) The number of hours represent sleep of the child _____ hrs
 1) 6 2) 8 3) 5 4) 4
- 54) The angle of the sector represents child's other work is _____ degrees.
 1) 60 2) 90 3) 45 4) 120
- 55) How many methods are used for numeration in the world
 1) 1 2) 2 3) 3 4) 4
- 56) Which of the following is the nearest number to 1234 which is divisible by 11
 1) 1221 2) 1232 3) 1243 4) 1233
- 57) The HCF of two numbers is 6 and their LCM is 36. If one of the numbers is 12, then the other number is _____
 1) 4 2) 12 3) 18 4) 24
- 58) A moter bike runs $52\frac{1}{2}$ kms using 1 litre of petrol. Distance covered by it for $2\frac{3}{4}$ litres of petrol _____ km
 1) $\frac{1155}{2}$ 2) $\frac{1155}{4}$ 3) $144\frac{3}{8}$ 4) $144\frac{1}{8}$
- 59) A closed figure, formed with a definite number of straight line segments is called a _____
 1) Polynomial 2) Hexagon 3) Octagon 4) Polygon
- 60) Fractions with different denominators are called _____ fractions
 1) Like 2) Unlike 3) Mixed 4) Proper

