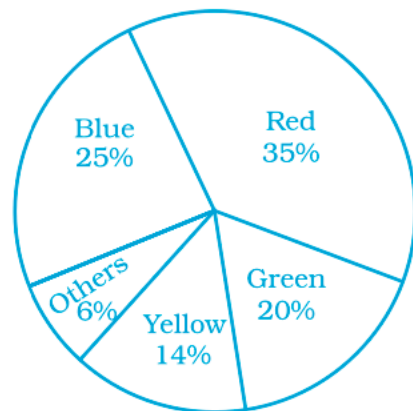


1. The height of a rectangle in a histogram shows the
 - (a) Width of the class
 - (b) Upper limit of the class
 - (c) Lower limit of the class
 - (d) Frequency of the class
2. A geometric representation showing the relationship between a whole and its parts is a
 - (a) Pie chart
 - (b) Histogram
 - (c) Bar graph
 - (d) Pictograph
3. In a pie chart, the total angle at the centre of the circle is
 - (a) 180°
 - (b) 360°
 - (c) 270°
 - (d) 90°
4. The range of the data 30, 61, 55, 56, 60, 20, 26, 46, 28, 56 is
 - (a) 26
 - (b) 30
 - (c) 41
 - (d) 61
5. Which of the following is not a random experiment?
 - (a) Tossing a coin
 - (b) Rolling a dice
 - (c) Choosing a card from a deck of 52 cards
 - (d) Throwing a stone from a roof of a building
6. What is the probability of choosing a vowel from the alphabets?
 - (a) $\frac{21}{26}$
 - (b) $\frac{5}{26}$
 - (c) $\frac{1}{26}$
 - (d) $\frac{3}{26}$
7. In a school only, 3 out of 5 students can participate in a competition. What is the probability of the students who do not make it to the competition?
 - (a) 0.65
 - (b) 0.4
 - (c) 0.45
 - (d) 0.6

Students of a class voted for their favourite colour and a pie chart was prepared based on the data collected.

Observe the pie chart given below and answer questions 8 – 10 based on it.



8. Which colour received $\frac{1}{5}$ of the votes?
 - (a) Red
 - (b) Blue
 - (c) Green
 - (d) Yellow

1. If three angles of a quadrilateral are each equal to 75° , the fourth angle is
(a) 150° (b) 135° (c) 45° (d) 75°
2. For which of the following, diagonals bisect each other?
(a) Square (b) Kite
(c) Trapezium (d) Quadrilateral
3. For which of the following figures, all angles are equal?
(a) Rectangle (b) Kite
(c) Trapezium (d) Rhombus
4. For which of the following figures, diagonals are perpendicular to each other?
(a) Parallelogram (b) Kite
(c) Trapezium (d) Rectangle
5. For which of the following figures, diagonals are equal?
(a) Trapezium (b) Rhombus
(c) Parallelogram (d) Rectangle
6. Which of the following figures satisfy the following properties?
 - All sides are congruent.
 - All angles are right angles.
 - Opposite sides are parallel.

- 16.** If two adjacent angles of a parallelogram are $(5x - 5)^\circ$ and $(10x + 35)^\circ$, then the ratio of these angles is
- (a) 1 : 3 (b) 2 : 3 (c) 1 : 4 (d) 1 : 2
- 17.** A quadrilateral whose all sides are equal, opposite angles are equal and the diagonals bisect each other at right angles is a _____.
- (a) rhombus (b) parallelogram (c) square (d) rectangle
- 18.** A quadrilateral whose opposite sides and all the angles are equal is a
- (a) rectangle (b) parallelogram (c) square (d) rhombus
- 19.** A quadrilateral whose all sides, diagonals and angles are equal is a
- (a) square (b) trapezium (c) rectangle (d) rhombus

26. If x varies inversely as y , then

x	$-$	60
y	2	10

27. If x varies directly as y , then

x	12	6
y	48	$-$

7. A batch of bottles were packed in 25 boxes with 12 bottles in each box. If the same batch is packed using 20 bottles in each box, how many boxes would be filled?

