

143. One fruit salad recipe requires $\frac{1}{2}$ cup of sugar. Another recipe for the same fruit salad requires 2 tablespoons of sugar. If 1 tablespoon is equivalent to $\frac{1}{16}$ cup, how much more sugar does the first recipe require?

103. There are 40 passengers in a bus, some with Rs. 3 tickets and remaining with Rs. 10 tickets. The total collection from these passengers is Rs. 295. Find how many passengers have tickets worth Rs. 3?

112. On dividing Rs. 200 between A and B such that twice of A's share is less than 3 times B's share by 200, B's share is?

- 76.** A quadrilateral can be constructed uniquely if its three sides and _____ angles are given.
- 77.** A rhombus is a parallelogram in which _____ sides are equal.
- 78.** The measure of _____ angle of concave quadrilateral is more than 180° .
- 79.** A diagonal of a quadrilateral is a line segment that joins two _____ vertices of the quadrilateral.
- 80.** The number of sides in a regular polygon having measure of an exterior angle as 72° is _____.
- 81.** If the diagonals of a quadrilateral bisect each other, it is a _____.

72. If a deposit of Rs 2,000 earns an interest of Rs 500 in 3 years, how much interest would a deposit of Rs 36,000 earn in 3 years with the same rate of simple interest?

Solve the following questions.

87. Write the first five square numbers.

88. Write cubes of first three multiples of 3.

89. Show that 500 is not a perfect square.

85. Expand the following, using suitable identities.

(xii)

$$(x^2 + y^2) (x^2 - y^2)$$

(xiii)

$$(a^2 + b^2)^2$$

97. A lady buys some pencils for Rs 3 and an equal number for Rs 6. She sells them for Rs 7. Find her gain or loss%.

- 41.** All six faces of a cuboid are _____ in shape and of _____ area.
- 42.** Opposite faces of a cuboid are _____ in area.
- 43.** Curved surface area of a cylinder of radius h and height r is _____.
- 44.** Total surface area of a cylinder of radius h and height r is _____

44. If y -coordinate is 3 times x -coordinate, form a table for it and draw a graph.