BHARATH COACHING CENTRE

8th CBSE   Maths   Total: 40

Understanding Quadrilaterals   Time:2.00hrs

SECTION – A   5 x 1 = 5

1. The three angles of a quadrilaterals are 76º, 54º, 108º. Find the measure of the fourth angle.
2. ABCD is a parallelogram in which ∠A = 110º. Find the measure of each of the angles ∠B, ∠C and ∠D.
3. Two adjacent angles of a parallelogram are equal. What is the measure of each angle.
4. Two adjacent angle angles of a parallelogram are (3x – 4) º and (3x + 16)º Find the measure of each angles.
5. True or false: Every rhombus is a parallelogram.
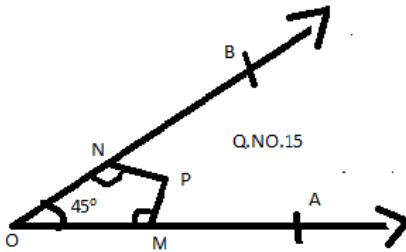
SECTION – B   6 x 2 = 12

6. Two sides of a parallelogram are in the ratio 5:3. If its perimeter is 64cm. Find the length of its side.
7. The angles of a quadrilaterals are in the ratio 3:5:7:9. Find the measure of each of these angles.
8. A quadrilateral has three acute angles, each measuring 75º. Find the measure of the fourth angle.
9. The sum of two opposite angles of a parallelogram is 130º. Find the measure of each angles.
10. Two adjacent angles of a parallelogram are in the ratio 4:5. Find the measure of each of its angle.
11. Three angles of a quadrilateral are equal and the measure of the fourth angle is 120º. Find the measure of each of the equal angles.

SECTION – C   5 x 3 = 15

12. Two angles of a quadrilateral measures 75º respectively. The other two angles are equal. Find the measure of each equal angle.
13. Determine the number of sides of a polygon whose exterior and interior angles are in the ratio 1:5.
14. The sum of the interior angles of a polygon is three times the sum of its exterior angle. Determine the number of sides of the polygon.

15. Find the measure of ∠MPN.

Q.NO.15

4 x 2 = 8

16. In a convex hexagon, more than the sum of all interior angle is equal to twice the sum of its exterior angle formed by producing the sides in the same order.
17. The perimeter of a parallelogram is 140cm. If one of the sides is longer than the other by 10 cm. find the length of each of its sides.