UNDERSTANDING QUADRILATERALS

- 1) The adjacent angles of a parallelogram are in the ratio 2: 7. Find all the angles.
- 2) Find the perimeter of a parallelogram with sides 12 cm and 8 cm.
- 3) Is it possible to have a regular polygon with measure of each exterior angle as 47? Why? Can it be an interior angle of a regular polygon?
- 4) Find the measure of each exterior angle of a Regular pentagon
- 5) Three angles of a quadrilateral are 50°, 40° and 123°. Find its fourth angle.
- 6) Find the perimeter of a rhombus whose diagonals are 16 cm and 12 cm.
- 7) The ratio of exterior angle to interior angle of a regular polygon is 1:5. Find the number of sides of the polygon.
- 8) If one of the angles of a rhombus is a right angle, Prove that it is a square.
- 9) If all the angles of a parallelogram are equal. Prove that it is a rectangle.
- 10) Each interior angle of a polygon is 140°. Find the number of sides of the polygon.
- 11) Find the length of the diagonal of a rectangle whose length is 24 cm and breadth is 9 cm.
- 12) LMNP is a trapezium such that LM \parallel NP, \angle L : \angle P = 1 : 4, \angle M : \angle N = 7 : 5. Find the angles of the trapezium.
- 13) The measure of two adjacent angles of a quadrilateral are 120^{0} and 50^{0} and the other two acute angles are equal. Find the measure of each angle.
- 14) The five angles of a pentagon are in the ratio 3:4:5:7:8. Find all the angles.
- 15) PQRS is a quadrilateral in which PQ || RS. If \angle Q = \angle S = 55 $^{\circ}$. Find the measures of \angle P and \angle R
- 16) One of the diagonals of a rhombus and its sides are equal. Find the angles of the rhombus.
- 17) MORE is a rectangle. Its diagonals meet at P. If MP = 4x + 13 and EP = 5x + 7, find x.

CBSE/Class 8/Maths Worksheet