

INTERNATIONAL INDIAN SCHOOL
BURAI DAH

Worksheet For The Academic Year 2023-24

CLASS: VIII SUBJECT: Mathematics DATE: 26/05/2023
LESSON-3 Understanding Quadrilaterals

- 1) The sum of all the angles of a quadrilateral is _____.
- 2) The sum of the interior angles of a regular polygon of n sides is _____.
- 3) The sum of the exterior angles of a regular polygon is always _____.
- 4) In a rhombus diagonals intersect at _____ angles.
- 5) The opposite angles of a parallelogram are _____.
- 6) A quadrilateral with all its sides equal and angles equal is a _____.
- 7) The length of the diagonals of a parallelogram are _____.
- 8) Find the number of sides of a regular polygon whose each exterior angle is 36° .
- 9) The four angles of a quadrilateral are in the ratio 2: 4: 6: 8. Find the angles of the quadrilateral.
- 10) Two adjacent angles of a parallelogram are in the ratio 1: 3 , find the angles.
- 11) The exterior angles of a polygon are 20° , 92° , 85° , 89° , x° . Find value of x .
- 12) In a parallelogram ABCD , $\angle A = 124^\circ$, find $\angle B$.
- 13) Two opposite angles of a parallelogram are $(5x - 8)$ and $(2x + 82)$. Find the measures of the angle of the parallelogram.
- 14) The interior angle of a regular polygon is 108° . Find its number of sides.
- 15) The measures of two adjacent angles of a parallelogram are in the ratio 4: 5. Find the measures of all the angles of the parallelogram.
- 16) If one angle of a parallelogram is 70° , find its remaining angles.
- 17) ABCD is a trapezium such that AB is parallel to CD , $\angle A: \angle D = 2: 1$, $\angle B: \angle C = 7: 5$. Find the angles of the trapezium.

ANSWERS

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| 8) 10 | 13) 142° , 38° , 142° , 38° |
| 9) 36° , 72° , 108° , 144° | 14) 5 |
| 10) 45° , 135° , 45° , 135° | 15) 80° , 100° , 80° , 100° |
| 11) 74° | 16) 70° , 110° , 70° , 110° |
| 12) 56° | 17) 120° , 105° , 75° , 60° |