

# 8 CLASS MATH TUITION ASSIGNMENT

## Assignment – 3

Assigned To = Raghav Pathak, Rajesh Dhangar, Ayush Kumar, Anshul Pathak

Chapter = Understanding Quadrilateral

Submission Date = 30 July 2022

MM = 20

**Q1.** The exterior angle of a regular polygon is one-fifth of its interior angle. How many sides have the polygon?

**Q2.** Find the measure of an interior angle of a regular polygon having 15 sides.

**Q3.** The interior angle of a regular is  $108^\circ$ . Find the number of sides of the polygon.

**Q4.** The perimeter of a parallelogram is 150 cm. One of its side is greater than the other by 25 cm. Find length of all sides of the parallelogram.

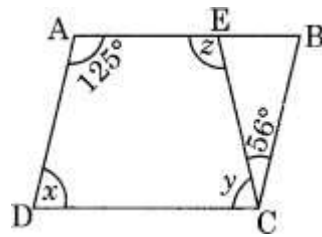
**Q5.** Adjacent sides of a rectangle are in the ratio 5 : 12, if the perimeter of the rectangle is 34 cm, find the length of the diagonal.

**Q6.** The opposite angles of a parallelogram are  $(3x + 5)^\circ$  and  $(61 - x)^\circ$ . Find the measure of four angles.

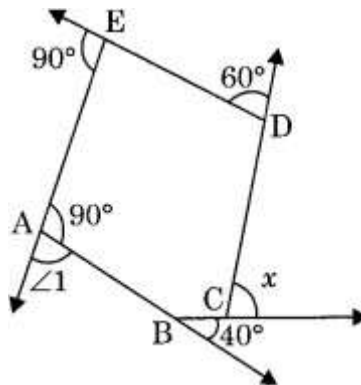
**Q7.** Find the measure of all four angles of a parallelogram whose consecutive angles are in the ratio 1 : 3.

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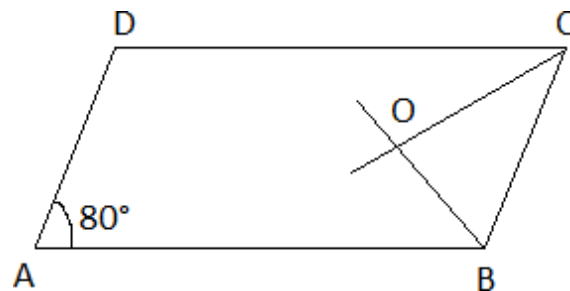
**Q8.** In the given figure, ABCD is a parallelogram. Find  $x$ ,  $y$  and  $z$ .



**Q9.** Find  $x$  in the following figure



**Q10.** ABCD is a parallelogram with  $\angle A = 80^\circ$ . The internal bisectors of  $\angle B$  and  $\angle C$  meet each other at O. Find the measure of the three angles of  $\triangle BCO$ .



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