NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

FIRST TERM EXAMINATION-June 2022-23

WORKSHEET-2

GRADE: 8

SUBJECT: Mathematics

Block- 5 Quadrilaterals: Types and Constructions

1. State True or False

a) To construct a quadrilateral, given the measurements of 3 sides and 2 included angles, we first construct a triangle and then complete the quadrilateral by drawing the remaining sides.

b) We cannot construct a unique quadrilateral if the measures of two opposite sides and three angles are given.

c) A square is always a rhombus.

d) In a parallelogram, all the angles are always equal.

2. Construct a rectangle where the lengths of two sides are 5 cm and 3.5 cm.

3. Construct a quadrilateral WXYZ, where XY = 8.5 cm, YZ = 5 cm, $\angle X = 100°$, $\angle Y = 120°$, and $\angle Z = 54°$

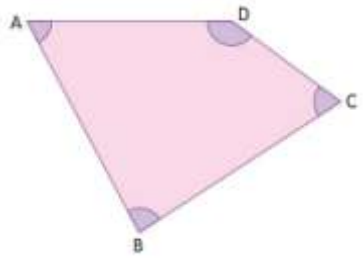
4. Rahul is constructing a wall shaped like an isosceles trapezium. If one of the diagonals measures 110 cm, what is the measure of the other diagonal?

5. Construct a quadrilateral WXYZ, where XY = 7 cm, YZ = 5 cm, ZX = 5.5 cm, XW = 5.8 cm, and $\angle X = 70°$.

6. Construct a rhombus, where one side measures 5.2 cm and one diagonal measures 9.1 cm.

Block -6 Properties of Quadrilaterals and Polygons

1. Match the angles with the correct measures.



Options	Answers
A. ∠A	62°
B. ∠B	85°
C. ∠C	144°
D. ∠D	69°

2. Fill in the blanks.

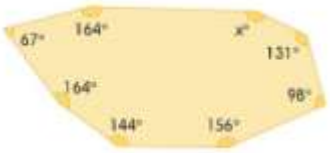
a) The measure of the third angle of an isosceles triangle where the common angle is 36° is_____ °.

b) Two angles in a triangle measure 67° and 85°. The measure of the third angle is_____ °.

3. Write the number of diagonals in the figure.

4. Sam drew some polygons and measured their angles. He forgot to measure one angle in each polygon. Help Sam find the measure of the missing angle.

a)



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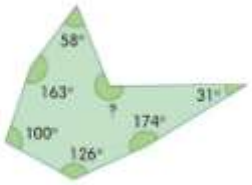
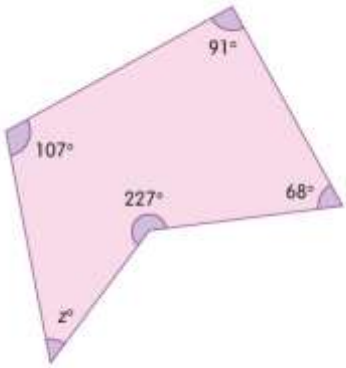
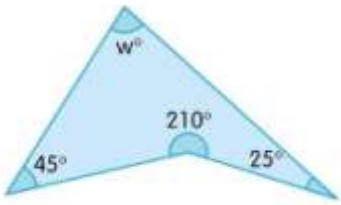


c)



5. Find the value of w.



6. What is the measure of one of the exterior angles of a regular octagon?

7. What is the sum of interior angles in a hexagon?

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