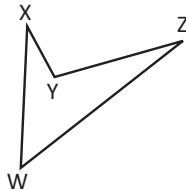


Question Bank

1. ANSWER THE FOLLOWING.

- a. For the quadrilateral WXYZ shown here, name the following:

- i. a pair of adjacent sides
- ii. a pair of opposite sides
- iii. a pair of adjacent angles
- iv. a pair of opposite angles



- b. The four angles of a quadrilateral add up to _____ $^{\circ}$.
- c. In a convex quadrilateral all angles are less than _____ $^{\circ}$.
- d. A quadrilateral can have at the most _____ right angles.
- e. The diagonals of a rectangle are _____ (equal/unequal).

2. CHOOSE THE CORRECT OPTION.

- a. A rhombus with equal diagonals becomes a:
- i. trapezium
 - ii. kite
 - iii. rectangle
 - iv. square
- b. The quadrilateral that needs the least number of elements to uniquely define is:

- i. kite
 - ii. rectangle
 - iii. square
 - iv. trapezium
- c. Which quadrilateral gives two isosceles triangles when cut along the shorter diagonal?
- i. parallelogram
 - ii. rhombus
 - iii. trapezium
 - iv. kite
- d. Which quadrilateral gives two isosceles triangles when cut along any diagonal?
- i. trapezium
 - ii. rhombus
 - iii. parallelogram
 - iv. kite

3. SAY TRUE OR FALSE

- a. A quadrilateral cannot have more than one right angle.
- b. A quadrilateral cannot have one of its angles equal to 180° .
- c. A quadrilateral cannot have more than one obtuse angle.
- d. In a concave quadrilateral, one of the angles is more than 180° .
- e. Rhombus is a kind of a parallelogram.

4. ANSWER THE FOLLOWING.

- a. The three angles of a quadrilateral are 20° , 30° and 40° . Find the fourth angle.
- b. The three angles of a quadrilateral are 60° , 40° and 60° . What kind of quadrilateral is it?
- c. The angles of a quadrilateral are in the ratio 1:2:2:4. Find the angles.
- d. The perimeter of a rectangle is 36 cm. Find its length and breadth if its length is 2 cm longer than its breadth.
- e. One angle of a parallelogram measures 70° . What are the measures of its adjacent and opposite angles?
- f. The diagonals of a rhombus have lengths 12 cm and 16 cm. What is the length of its side?
- g. The length and breadth of a rectangle are 12 cm and 5 cm. The rectangle is cut along its diagonal to form two triangles. What is the perimeter of each triangle formed?