


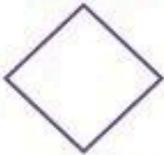
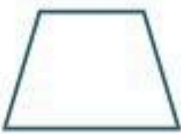



RS Aggarwal Class 9 Solutions

Quadrilaterals and Parallelograms

Exercise 9A

Type	Properties
Parallelogram 	<ul style="list-style-type: none">• Opposite sides are equal and parallel• Opposite angles are equal
Rectangle 	<ul style="list-style-type: none">• Opposite sides are equal and parallel• All angles are right angles (90°)
Square 	<ul style="list-style-type: none">• Opposite sides are parallel• All sides are equal• All angles are right angles (90°)
Rhombus 	<ul style="list-style-type: none">• Opposite sides are parallel• All sides are equal• Opposite angles are equal• Diagonals bisect each other at right angles (90°)
Trapezoid 	<ul style="list-style-type: none">• One pair of opposite sides is parallel
Kite 	<ul style="list-style-type: none">• Two pairs of adjacent sides are equal• One pair of opposite sides are equal• One diagonal bisects the other• Diagonals intersect at right angle (90°)

Question 1:

Let the fourth angle be x .

We know, that sum of the angles of a quadrilateral is 360°

$$\text{Then, } 56^\circ + 115^\circ + 84^\circ + x = 360^\circ$$

$$\Rightarrow 255^\circ + x = 360^\circ$$

$$\Rightarrow x = 360^\circ - 255^\circ = 105^\circ$$

\therefore The fourth angle is 105° .