

RS Aggarwal Solutions Class 9 Chapter 9

Quadrilaterals and Parallelograms

[Quadrilateral Class 9](#). All the exercise questions of the book are covered in the RS Aggarwal Solutions Class 9 maths and this chapter will help you understand quadrilaterals in a comprehensive way. A lot of questions will be provided with diagrams and require you to assess it and find out the answers to the given questions and practicing these questions will be very helpful to you in your exams.

This type of questions given you the advantage of knowing the formulas and concepts behind why a figure is called a certain geometrical entity. These will serve you as the basic for solving questions in higher standards. A lot of questions will be provided with diagrams and require you to assess it and find out the answers to the given questions and practicing these questions will be very helpful to you in your exams.

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° .

Question 2:

Let the angles of a quadrilateral be $2x$, $4x$, $5x$ and $7x$.
We know, that sum of the angles of a quadrilateral is 360°

$$\text{Then, } 2x + 4x + 5x + 7x = 360^\circ$$

$$\Rightarrow 18x = 360^\circ$$

$$\Rightarrow x = \frac{360}{18} = 20^\circ$$

$\therefore$ the angles of the quadrilateral are:

$$2x = 2 \times 20 = 40^\circ$$

$$4x = 4 \times 20 = 80^\circ$$

$$5x = 5 \times 20 = 100^\circ$$

$$7x = 7 \times 20 = 140^\circ$$

$\therefore$ the required angles are $40^\circ, 80^\circ, 100^\circ$ and 140° .

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