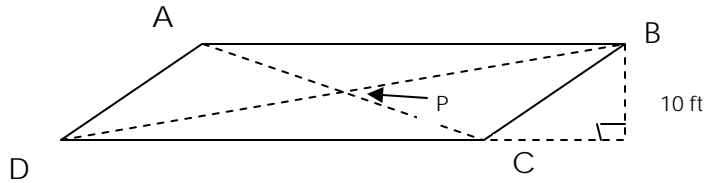


Geometry
Unit: Quadrilaterals and Polygons
Section: Parallelograms

Review Worksheet Key

Use parallelogram ABCD to answer the questions below.



1) Side AB measure 15 cm. What is the measure of side DC?

$$DC = 15 \text{ cm}$$

2) Side AD measure $(6x - 2)$ ft and side BC measures $(2x + 22)$ ft. What is the value of x ?

$$6x - 2 = 2x + 22$$

$$6x = 2x + 24$$

$$4x = 24$$

$$x = 6$$

3) Angle ADC measures 52° . What is the measure of angle DCB?

$$m\angle ADC + m\angle DCB = 180$$

$$52 + m\angle DCB = 180$$

$$m\angle DCB = 128^\circ$$

4) Angle ABC measures $(8x - 1)^\circ$ and angle ADC measures $(5x + 20)^\circ$. What is the measure of each of these angles?

$$8x - 1 = 5x + 20$$

$$8x = 5x + 21$$

$$3x = 21$$

$$x = 7$$

$$m\angle ABC = m\angle ADC = 8(7) - 1 = 55^\circ$$

5) Segment AP measures 33 cm. What is the measure of segment AC?

$$AC = 2AP = 2(33) = 66 \text{ cm}$$

6) $AD = 12$ ft, $AB = 15$ ft. Find the perimeter and area.

$$P = 2(AD) + 2(AB) = 2(12) + 2(15) = 54 \text{ ft}$$

$$A = b \cdot h = 15 \cdot 10 = 150 \text{ ft}^2$$