Worksheet 1-9: Perimeter and Area of a Parallelogram

Parallelogram

Perimeter: $P = 2b + 2c$

Area: $A = bh$
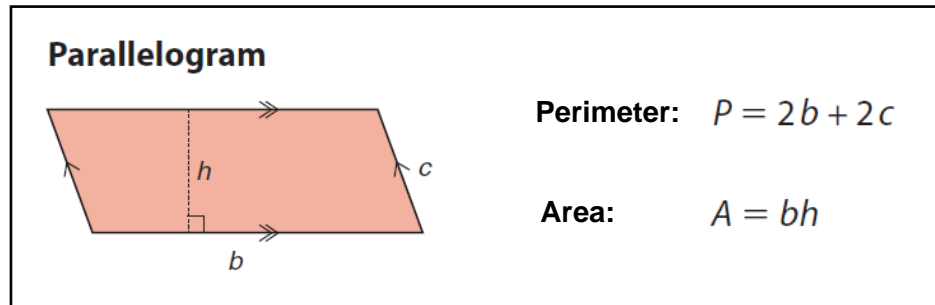
1. Determine the perimeter of each given parallelogram.
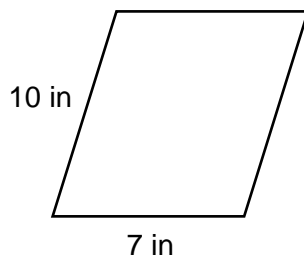
(a)   8 cm

10 cm
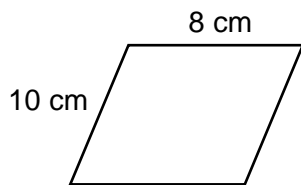
$$\begin{aligned}
\text{Perimeter} &= 2b + 2c \\
&= 2(8) + 2(10) \\
&= 16 + 20 \\
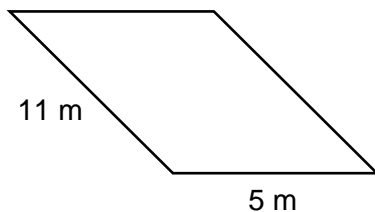&= 36
\end{aligned}$$

The perimeter is 36 cm.

(b)

10 in

7 in

$$\begin{aligned}
\text{Perimeter} &= 2b + 2c \\
&= 2(7) + 2(10) \\
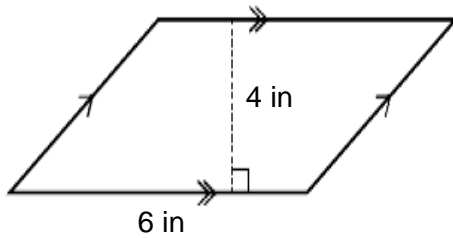&= 14 + 20 \\
&= 34
\end{aligned}$$

The perimeter is 34 in.

(c)

11 m

5 m

2. Determine the area of each given parallelogram.

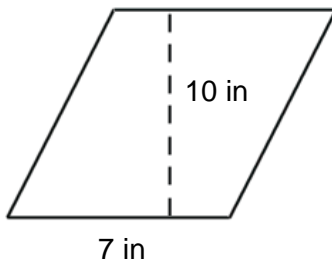   **Note:** Height, **h**, is a vertical line perpendicular to the base of a parallelogram.

(a)

4 in

6 in

Area $= bh$
$= (6)(4)$ or 6×4
$= 24$

The area is 24 **in²**.

(b)

10 in

7 in

Area $= bh$
$= (7)(10)$
$= 70$

The area is 70 in².

(c)

6 m

9 m
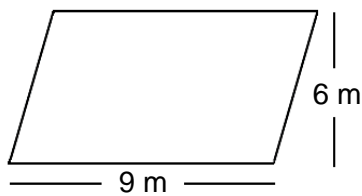
3. Determine the area and perimeter of the given parallelogram.

8 ft

12 ft

6 ft