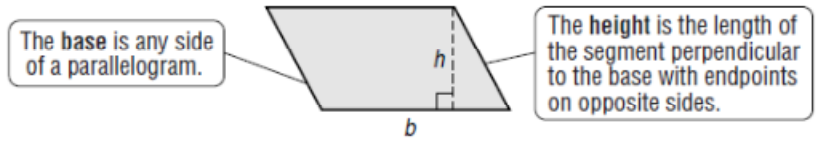
NAME _____ DATE _____ PERIOD _____

11-1 Study Guide and Intervention

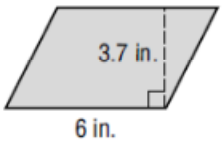
Area of Parallelograms

The area A of a parallelogram equals the product of its base b and its height h.

$$A = bh$$



Example 1 **Find the area of a parallelogram if the base is 6 inches and the height is 3.7 inches.**

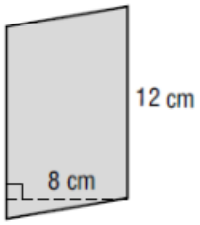


Estimate $A = 6 \cdot 4$ or 24 in^2

$A = bh$	Area of a parallelogram
$A = 6 \cdot 3.7$	Replace b with 6 and h with 3.7.
$A = 22.2$	Multiply.

The area of the parallelogram is 22.2 square inches. This is close to the estimate.

Example 2 **Find the area of the parallelogram at the right.**



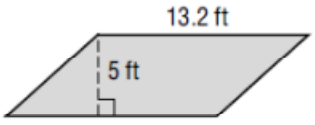
Estimate $A = 10 \cdot 10$ or 100 cm^2

$A = bh$	Area of a parallelogram
$A = 12 \cdot 8$	Replace b with 12 and h with 8.
$A = 96$	Multiply.

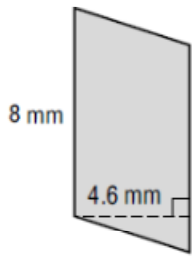
The area of the parallelogram is 96 square centimeters. This is close to the estimate.

Exercises

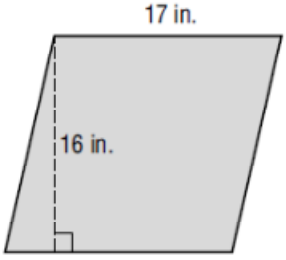
Find the area of each parallelogram. Round to the nearest tenth if necessary.

1. 

66 ft^2

2. 

36.8 mm^2

3. 

272 in^2