

Lesson 5-1

Reinforce Understanding

Determine the Area of Parallelograms and Rhombuses

I can find the area of a parallelogram using base $\times$ height.

Worked model

A parallelogram has a base of 14 cm. The perpendicular height to that base is 6 cm. Find the area.

1. Write the formula. $A = b \times h$
2. Name the parts. base $b = 14$ cm perpendicular height $h = 6$ cm
3. The slanted side is never the height — use the square-corner distance.
4. Multiply and label square units. $14 \times 6 = 84$

Answer: The area of the parallelogram is 84 square centimeters (84 cm^2).

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Use the formula $A = b \times h$ to find the area of each parallelogram.

Complete the table. Show how you found each value.

Parallelogram	Base	Height	Area
Patio X	6 ft	4 ft	
Patio Y	11 ft	3 ft	

Show your work

2. What is the area of a parallelogram with base 10 cm and height 7 cm?

Circle the letter of the best answer. Show how you know.

- A. 17 sq cm
- B. 34 sq cm
- C. 70 sq cm
- D. 70 cm

3. A parallelogram has an area of 54 sq ft and a base of 9 ft. What is the height?

Circle the letter of the best answer. Show how you know.

- A. 6 ft
- B. 27 ft
- C. 45 ft
- D. 63 ft