

Lesson 5-1 • Group 2

Reinforce Understanding

5.1 Small Group • Group 2

I can find the area of a parallelogram using base $\times$ height, explain why the method works, and use it on a problem I have not seen before.

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. Complete the table.

Complete the table. Show how you found each value.

Parallelogram	Base	Height	Area
Patio A	14 ft	9 ft	
Patio B	8 ft		56 sq ft
Patio C		12 ft	96 sq ft
Patio D	15 ft	6 ft	

Show your work

2. Match each shape to its area.

Write the letter of the matching item on each line.

1. _____ Triangle 8×6
2. _____ Parallelogram 5×4
3. _____ Rectangle 7×3
4. _____ Triangle 10×8
5. _____ Square side 6
6. _____ Parallelogram 9×2

- A24 sq units
- B20 sq units
- C21 sq units
- D40 sq units
- E36 sq units
- F18 sq units