

Lesson 5-3 • Catch-up

Reinforce Understanding

5.1–5.3 Catch-Up

I can show I am caught up on Lessons 5.1–5.3 by using each lesson's big idea in mixed practice.

Worked model

An isosceles trapezoid has a top base of 8 m, a bottom base of 14 m, and a height of 6 m. Find the area.

1. Decompose it: a rectangle in the middle and two matching triangles on the ends.
2. Rectangle: top base by height. $8 \times 6 = 48$
3. Leftover bottom: $14 - 8 = 6$, split evenly into two triangle bases of 3 m.
4. Each triangle $\frac{1}{2} \times 3 \times 6 = 9$, so two give 18. $48 + 18 = 66$

Answer: The area of the trapezoid is 66 square meters (66 m^2).

Practice

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

1. (Lesson 5.1) 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

2. (Lesson 5.1) 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

3. (Lesson 5.2) What is the area of a triangle with base 10 cm and height 6 cm?

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

- A. 16 sq cm
- B. 30 sq cm
- C. 30 cm
- D. 60 sq cm