

Lesson 5-8 • Catch-up

Reinforce Understanding**5.7 • 5.8 Catch-Up**

I can show I am caught up on Lessons 5.7 • 5.8 by using each lesson's big idea in mixed practice.

Worked model

A square pyramid has a base 10 cm on each side. Each triangular face has a slant height of 12 cm. Find the surface area.

1. The net is a square base with 4 congruent triangles, one on each side.
2. Area of the square base. $10 \times 10 = 100$
3. One triangular face uses the slant height. $\frac{1}{2} \times 10 \times 12 = 60$
4. Four faces plus the base. $60 \times 4 = 240$, then $240 + 100 = 340$

Answer: The surface area is 340 square centimeters (340 cm^2).

Practice

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

- 1. (Lesson 5.7) What is the surface area of a rectangular prism with $l = 5 \text{ cm}$, $w = 4 \text{ cm}$, $h = 3 \text{ cm}$?**

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

- A. 47 cm^2
- B. 60 cm^2
- C. 94 cm^2
- D. 94 cm^3

- 2. (Lesson 5.7) How many faces does a triangular prism have?**

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

- A. 3
- B. 4
- C. 5
- D. 6

Show your work

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- 3. (Lesson 5.8) A square pyramid has a base edge of 5 in and a slant height of 7 in. What is the surface area?**

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

- A. 70 in^2
- B. 95 in^2
- C. 95 in^3
- D. 120 in^2