Lesson 12 Practice Problems
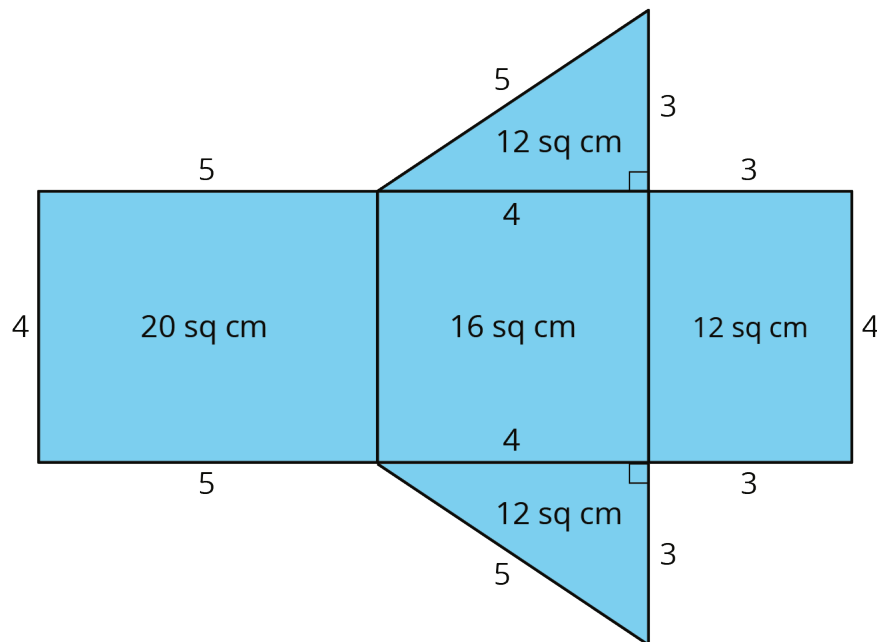
1. Jada drew a net for a polyhedron and calculated its surface area.

a. What polyhedron can be assembled from this net?

b. Jada made some mistakes in her area calculation. What were the mistakes?

c. Find the surface area of the polyhedron. Show your reasoning.

2. A cereal box is 8 inches by 2 inches by 12 inches. What is its surface area? Show your reasoning. If you get stuck, consider drawing a sketch of the box or its net and labeling the edges with their measurements.

Accelerated 6 Unit 1
Lesson 12

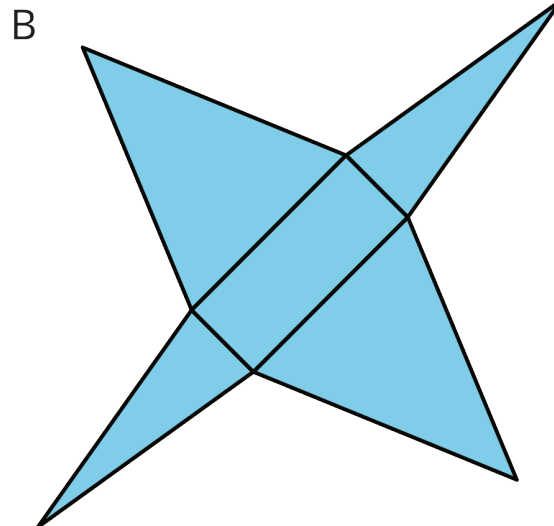CC BY Open Up Resources. Adaptations CC BY IM.

1

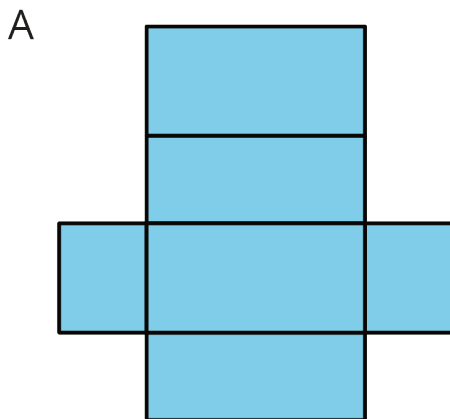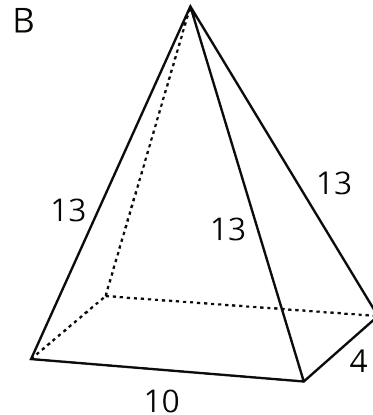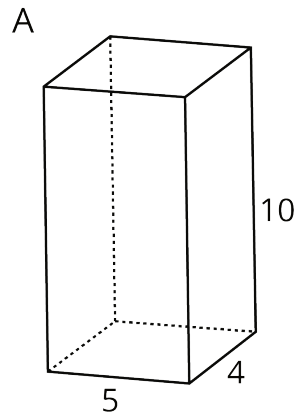3. Twelve cubes are stacked to make this figure.
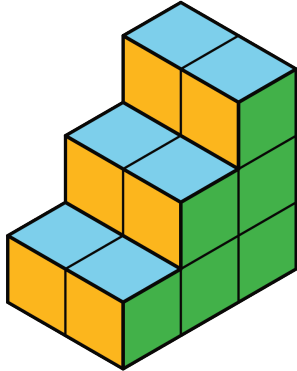
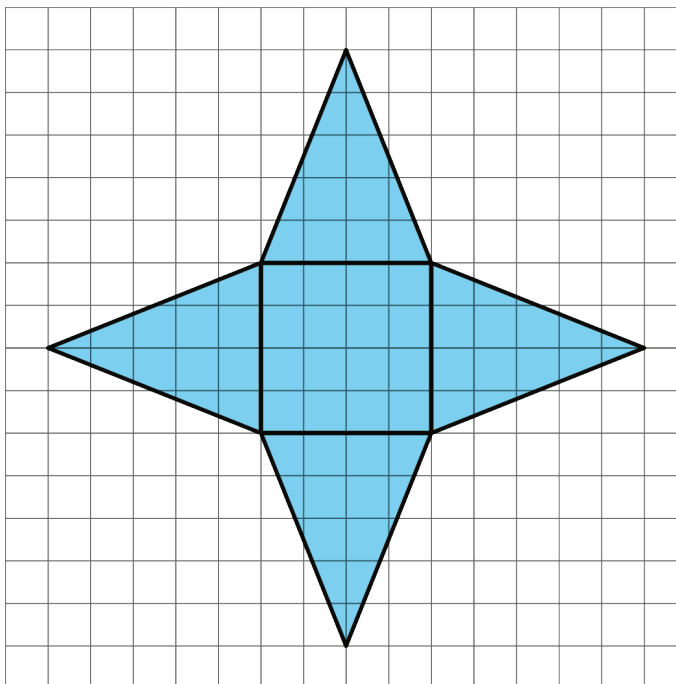
a. What is its surface area?

b. How would the surface area change if the top two cubes are removed?

(From Unit 1, Lesson 10.)

4. Here are two polyhedra and their nets. Label all edges in the net with the correct lengths.

A

10

5   4

B

13   13

13

10   4

A

B

Accelerated 6 Unit 1
Lesson 12

CC BY Open Up Resources. Adaptations CC BY IM.

2

5. a. What three-dimensional figure can be assembled from the net?

b. What is the surface area of the figure? (One grid square is 1 square unit.)

(From Unit 1, Lesson 11.)