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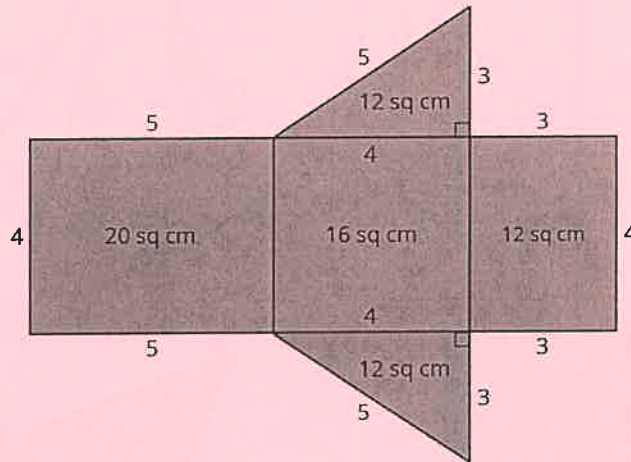
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Unit 1, Lesson 15

Practice Problems

1. Jada drew a net for a polyhedron and calculated its surface area.

- What polyhedron can be assembled from this net?
- 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.

3. Twelve cubes are stacked to make this figure.



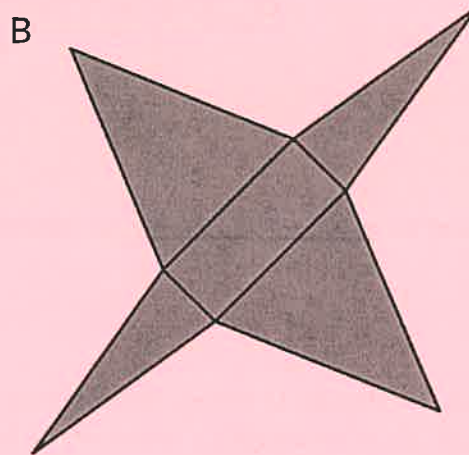
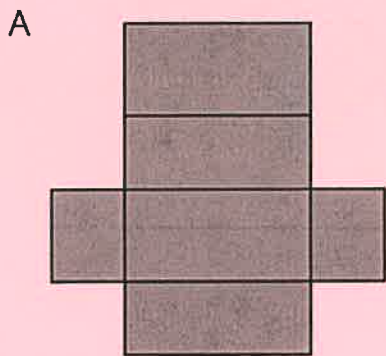
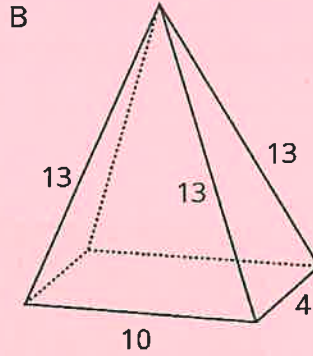
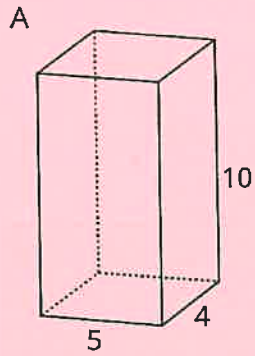
- What is its surface area?
- How would the surface area change if the top two cubes are removed?

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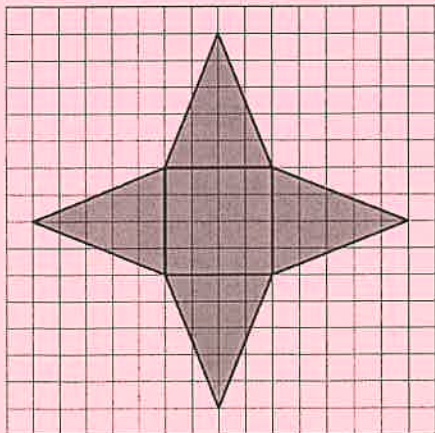
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4. Here are two polyhedra and their nets. Label all edges in the net with the correct lengths.



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.)