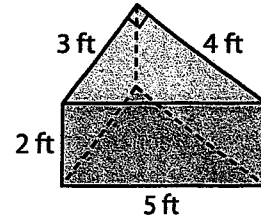


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YOUR TURN

6. The figure shown is a triangular prism. How much would it cost to cover the bases and the other three faces with foil that costs \$0.22 per square foot?

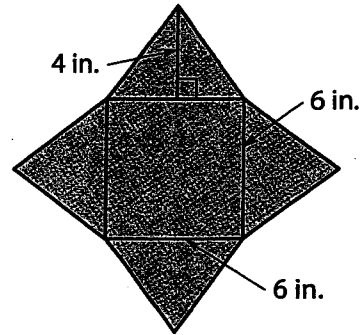
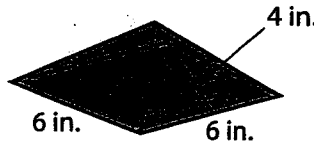


Guided Practice

HW # 1-8

A square pyramid is shown.

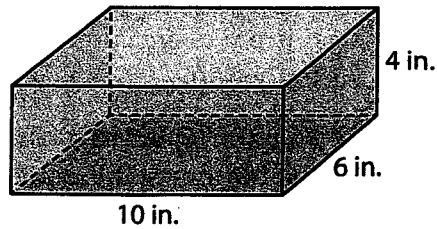
1. The figure has _____ square base and _____ triangular faces.
(Explore Activity)



2. Find the surface area. (Example 1)

The area of the base is _____ square inches.
The area of the four faces is _____ square inches.
The surface area is _____ square inches.

3. Yolanda makes wooden boxes for a crafts fair. She makes 100 boxes like the one shown, and she wants to paint all the outside faces. (Example 2)



- a. Find the surface area of one box.

- b. Find the total surface area of 100 boxes.


- c. One can of paint will cover 14,000 square inches. How many cans of paint will Yolanda need to buy?

ESSENTIAL QUESTION

4. How is a net useful when finding the surface area of prisms and pyramids?

15.1 Independent Practice

CA CC 6.G.4



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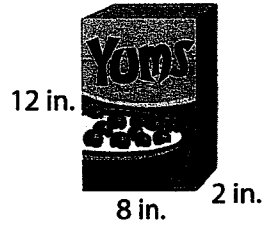
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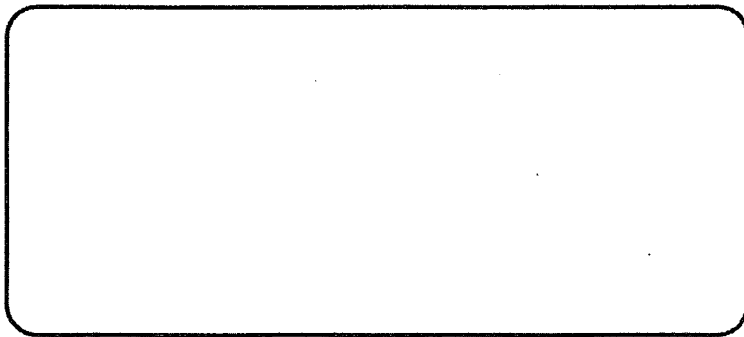
5. Use a net to find the surface area of the cereal box.

Total surface area: _____

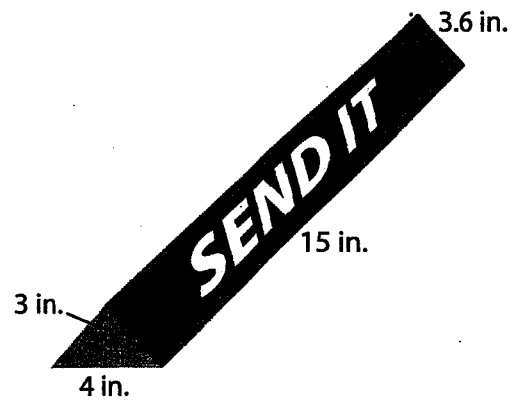
6. Inez bought a shipping container at a packaging store. She measured the dimensions shown.



a. Sketch a net of the shipping container, and label the dimensions.



b. Find the surface area of the shipping container.

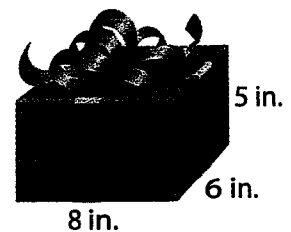


7. Raj builds a side table in the shape of a cube. Each edge of the cube measures 20 inches. Raj wants to cover the top and four sides of the table with ceramic tiles. Each tile has an edge length of 5 inches. How many tiles will he need?

8. Santana wants to cover a gift box shaped like a rectangular prism with foil. The foil costs \$0.03 per square inch. Santana has a choice between Box A which is 8 inches long, 3 inches wide, and 6 inches high, and Box B which is 10 inches long, 3 inches wide, and 4 inches high. Which box will be less expensive to cover with foil, and by how much?

9. **Vocabulary** Name a three-dimensional shape that has four triangular faces and one rectangular face. Name a three-dimensional shape that has three rectangular faces and two triangular faces.

10. Victor wrapped the gift box shown with adhesive paper (with no overlaps). How much paper did he use?



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