



Rectangular prism



How are a rectangular prism and a cube different?

[The faces of a cube are all identical squares.]

Triangular prism



How are a triangular prism and a rectangular prism different?

[A triangular prism has two triangular faces, the bases.]

Triangular pyramid



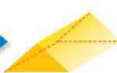
How are a triangular pyramid and a triangular prism different?

[Three of the edges of a triangular pyramid meet at a point not on the base.]

Rectangular prism



Triangular prism



Triangular pyramid



2 Guided Practice



Formative Assessment

Remind students that vertices are points, faces are flat surfaces, and edges are line segments.

Exercises 1–3

Error Intervention

If students have difficulty naming all the vertices, edges, or faces of a solid,

then have them begin by finding the number of vertices, edges, and faces. Then students can double-check that they have listed all the edges or faces. *How many vertices are there?* [4] *How many faces are there?* [4] *How many edges are there?* [6] *Now that you know the quantity of each item, make sure that you have listed each item only once and that you don't repeat one.*

Reteaching For another example and more practice, assign **Reteaching** Set A p. 344.

Guided Practice*

Do you know HOW?

For 1 through 3, use the solid at the right.

1. Name the vertices.

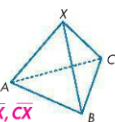
A, B, C, X

2. Name the faces.

See margin.

3. Name the edges.

AB, BC, CB, AX, BX, CX



Do you UNDERSTAND?

4. What is the name of the solid figure at the left?

Triangular pyramid

5. Which of the solid figures in Other Examples have curved surfaces?

Cylinder and cone

6. How many faces does a triangular prism have?

5

Independent Practice

For 7 through 9, tell which solid figure each object resembles.

7.



cylinder

8.



rectangular prism

9.



cone

For 10 through 12, use the drawing to the right.

10. Name the faces.

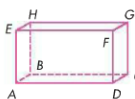
ABCD, EFGH, CDHG, AEHB, ADHE, BCGH

11. Name the vertices.

A, B, C, D, E, F, G, H

12. Name the edges.

AB, BC, CD, DA, AE, BH, CG, DF, EH, HG, GF, FE



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*For another example, see Set A on page 344.

Lesson 13-1

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3 Independent Practice

Remind students to use the examples in the Visual Learning Bridge and the Other Examples to help them identify the names of different solids. *In Exercise 7, does the solid figure have a curved face?* [Yes] *Which solids in the Other Examples have curved faces?* [Cylinders and cones] *What is the difference between a cylinder and a cone?* [The number of circular bases] *How many circular bases are in the picture for Exercise 7?* [2] *Which figure is in the picture?* [A cylinder, because it has two circular bases.]

Early Finishers Ask students to identify sets of perpendicular lines in the prisms in the exercises in their book.

See **Extensions** on page 345A.

2. $\triangle ABC$, $\triangle ABX$, $\triangle ACX$, $\triangle BCX$