Analyze Faces of 3-D Shapes

Draw the following 3-D Shapes.

1. Draw a rectangular prism that is not a cube.

2. Draw a triangular prism.

✔ Check-In: Questions 3–4

Use the numbered and labeled shapes on the page after Question 4 to answer the following questions.

3. Use the numbers to list the shapes with each property. If there is more than one shape with that property, name them all. Each shape may be listed more than once.
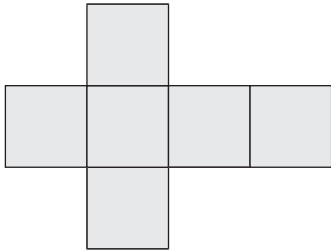
A. parallel triangular faces   _____

B. eight corners   _____

C. six congruent faces   _____

D. opposite faces are congruent   _____

E. no parallel faces   _____

F. triangular faces are not parallel   _____

G. circles as faces   _____

H. at least three rectangular faces   _____

I. odd number of vertices   _____

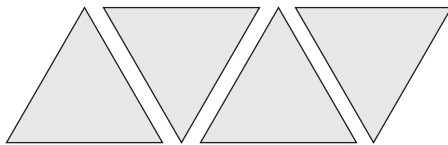**4.** Look at the faces of the 3-D shape. Write the number of the shape on the line next to the drawing of the faces.
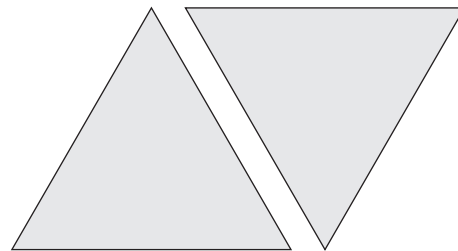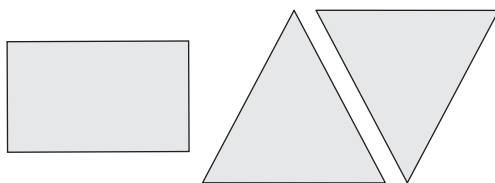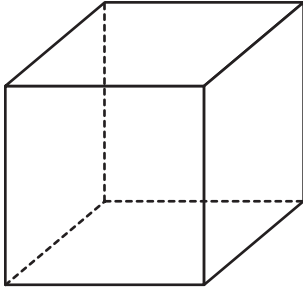
A.

_____
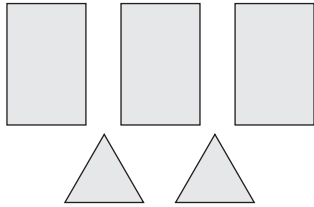
B.

_____

C.

_____
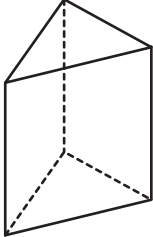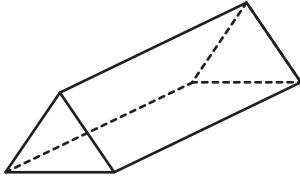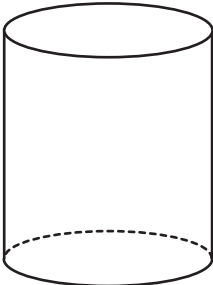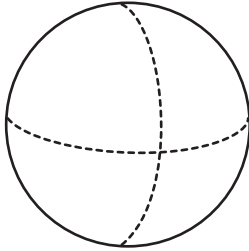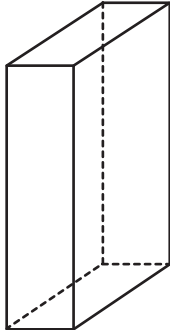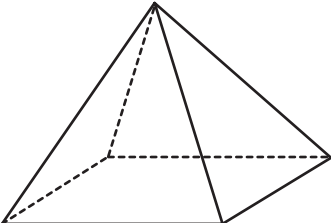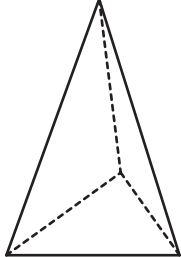
D. Luis is playing Guess My Shape and is only showing some of the faces of a 3-D shape. What shapes could he be showing you? Explain your thinking.

E. Luis shows another shape. What shapes could he be showing you now? Explain your thinking.
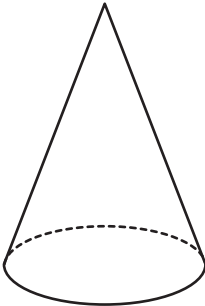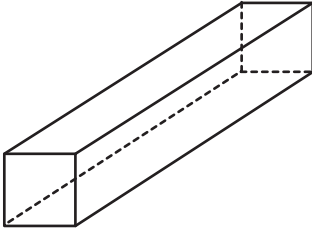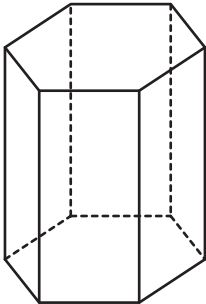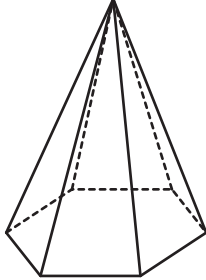
rectangular prism cube **1**	triangular prism **2**	triangular prism **3**
cylinder **4**	sphere **5**	rectangular prism **6**
square pyramid rectangular pyramid **7**	triangular pyramid **8**	cone **9**
rectangular prism square prism **10**	hexagonal prism **11**	hexagonal pyramid **12**

Analyze Faces of 3-D Shapes Check-In: Questions 3–4 Feedback Box	Expectation	Check In	Comments
Describe and analyze three-dimensional shapes using their properties. [Q# 3–4]	E2		
Identify three-dimensional shapes using their properties [Q# 3–4]	E3		
Identify congruent shapes. [Q# 3–4]	E5		
Justify conclusions using geometric properties. [Q# 4D–E]	E7		

	Yes . . .	Yes, but . . .	No, but . . .	No . . .
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 4D–E]				