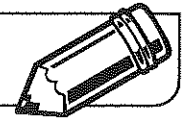
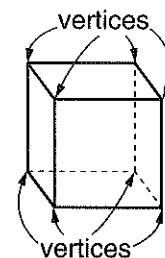
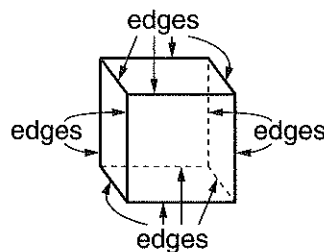
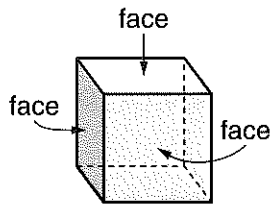


LESSON
11•1
Exploring Faces, Vertices, and Edges


- ◆ A flat surface of a geometric solid is called a face.
- ◆ A corner of a geometric solid is called a vertex. The plural of vertex is vertices.
- ◆ An edge of a geometric solid is a line segment or curve where two surfaces meet.



1. Complete the table.

Polyhedron	Faces	Vertices	Faces + Vertices	Edges
Cube	6	8	$6 + 8 = 14$	12
Tetrahedron				
Octahedron				
Dodecahedron				
Icosahedron				

2. Compare the values in the Faces + Vertices column with the Edges column. What do you notice?

3. Two of the patterns below can be folded to make a tetrahedron. Cross out the patterns that will not make a tetrahedron. Circle the patterns that will make a tetrahedron. Explain your solution strategy.

