

### **6501-01 Complete shape sentences**

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Complete the sentences to describe 3-D shapes, using the following words:

**dodecahedron edges faces four octahedron parallel pentagon  
perpendicular pyramid rectangles six square three triangles triangular  
twelve vertex vertices**

**You may use each word more than once if you wish.**

**a)** A cube has six \_\_\_\_\_. Each face is a \_\_\_\_\_.

Opposite faces are \_\_\_\_\_.

Faces next to each other are \_\_\_\_\_. A cube also has twelve  
\_\_\_\_\_ and at each vertex three \_\_\_\_\_ meet.

**b)** A \_\_\_\_\_ prism has five faces, two are triangles and three are  
\_\_\_\_\_. The ends are \_\_\_\_\_ to the sides.

**c)** A shape with eight faces is called an \_\_\_\_\_. The faces are all  
\_\_\_\_\_. At each vertex \_\_\_\_\_ edges meet.

Altogether there are \_\_\_\_\_ edges and \_\_\_\_\_  
vertices.

**d)** A square based \_\_\_\_\_ has one \_\_\_\_\_ face and  
four \_\_\_\_\_ faces.

**e)** A shape with twelve faces is called a \_\_\_\_\_. Each face is a  
\_\_\_\_\_ and \_\_\_\_\_ edges meet at each  
\_\_\_\_\_. In a regular \_\_\_\_\_, opposite faces are  
\_\_\_\_\_.

### **6501-01 Complete shape sentences Answers**

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- a)** A cube has six **faces**. Each face is a **square**. Opposite faces are **parallel**. Faces next to each other are **perpendicular**. A cube also has twelve **vertices** and at each vertex three **edges** meet.
- b)** A **triangular** prism has five faces, two are triangles and three are **rectangles**. The ends are **perpendicular** to the sides.
- c)** A shape with eight faces is called an **octahedron**. The faces are all **triangles**. At each vertex **four** edges meet. Altogether there are **twelve** edges and **six** vertices.
- d)** A square based **pyramid** has one **square** face and four **triangular** faces.
- e)** A shape with twelve faces is called a **dodecahedron**. Each face is a **pentagon** and **three** edges meet at each **vertex**. In a regular **dodecahedron**, opposite faces are **parallel**.