7.G.3: Worksheet

1. What shape do we get if take a cross section of a triangular pyramid parallel to its base?

2. What shape will we get if we take a slice of the prism in Figure 1 that's perpendicular to its bottom base?

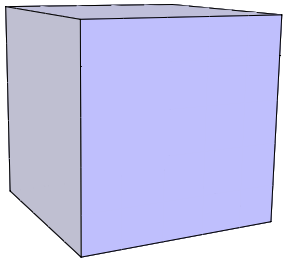

Figure 1.

3. What shape will we get if we slice a square pyramid perpendicular to its base and slightly off-center?

4. What shape will our cross section be if we cut the shape in Figure 2 horizontally, right through the center?

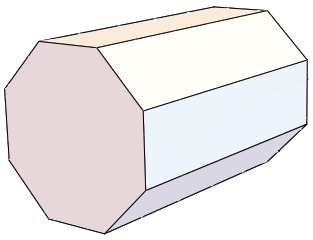

Figure 2.

5. What shape will we get if we take a vertical cross section of the solid in Figure 2?

6. If we cut a cylinder perpendicular to its bases, what shape do we get?

7. If we cut a cylinder parallel to its bases, what shape do we get?

8. What shape will we get if we cut off one of the corners of the prism in Figure 3?

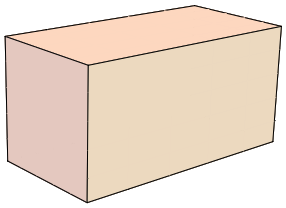

Figure 3.

9. If we take a cross section of a sphere, how many possible shapes are there?

10. Is it possible to get a rectangular cross section from a cube?