

## 7.G.3: Worksheet

### Solutions

1. What shape do we get if take a cross section of a triangular pyramid parallel to its base? [A triangle](#)
2. What shape will we get if we take a slice of the prism in Figure 1 that's perpendicular to its bottom base?

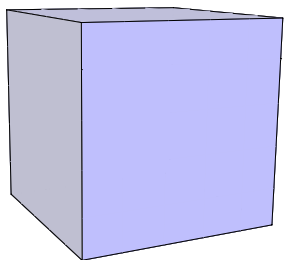


Figure 1.

[A square](#)

3. What shape will we get if we slice a square pyramid perpendicular to its base and slightly off-center? [A trapezoid](#)
4. What shape will our cross section be if we cut the shape in Figure 2 horizontally, right through the center?

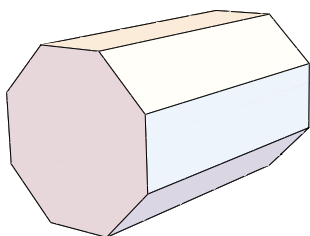


Figure 2.

[A rectangle](#)

5. What shape will we get if we take a vertical cross section of the solid in Figure 2? [An octagon](#)
6. If we cut a cylinder perpendicular to its bases, what shape do we get? [A rectangle](#)
7. If we cut a cylinder parallel to its bases, what shape do we get? [A circle](#)
8. What shape will we get if we cut off one of the corners of the prism in Figure 3?

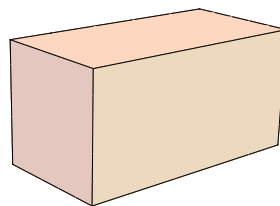


Figure 3.

[A triangle](#)

9. If we take a cross section of a sphere, how many possible shapes are there? [Just one: a circle.](#)
10. Is it possible to get a rectangular cross section from a cube? [Yes—slice off one of the edges.](#)