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?

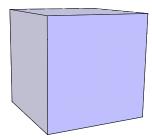


Figure 1.

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?

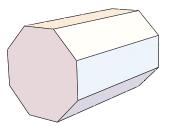


Figure 2.

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?

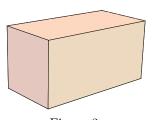


Figure 3.

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.

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