**Area, Volume, and Surface Area Review**

1. Find the area of the shaded section of the square below.

7 m

1. Determine the area of the trapezoid. Decompose the figure into rectangles and triangles.

1 cm

1 cm

24 cm

10 cm

1. A storage container is in the shape of a rectangular prism. The container has a length of 5ft, a width of 9ft, and a height of 8ft. What is the **volume** of the container? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8 ft

9 ft

5 ft

1. A box is covered with decorative wrapping paper with no overlap. The net of the box is shown below. How many square inches of wrapping paper is needed to cover the **surface area** of the box?

**12 in.**

**11 in.**

**3 in.**

1. Find the volume of the figure.
2. What is the surface area of the triangular prism (the triangles are equilateral triangles)?

8 m

6 m

10 m

1. A paperweight in the shape of a square pyramid has a side length of 4 inches. The slant height is 6 inches. What is the surface are of the paper weight?
2. A fish tank is shown below. If the water level is $\frac{1}{2}$ inch below the top of the tank, what is the volume of the water in the tank?

8 in.

10 in.

5 in.