Show the work that leads up to each given volume.

1. 2.

Name of the Figure: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name of the Figure: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shape of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Shape of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume: 288 m3 Volume: 60 yd3



3. 4.

Name of the Figure: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name of the Figure: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shape of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Shape of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area of the Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume: 27.2 m3 Volume: 350 in3

Draw a picture for each given scenario, and then solve the problem!

5. The United States Post Office has two different priority mail flat rate boxes. Which box has the greater volume? Justify your answer. Box 1: 6$\frac{1}{2}$ in. × 8$\frac{1}{2}$ in. × 11 in. Box 2: 3$\frac{3}{8}$ in. × 11$\frac{7}{8}$ in. × 13$\frac{5}{8}$ in.

6. The ramp leading up to my classroom forms a triangular prism with the ground. The triangular face has a base and height 15 ft by 3 ft, respectively, and the height of the prism is 4 ft. How much space is between my ramp and the ground?