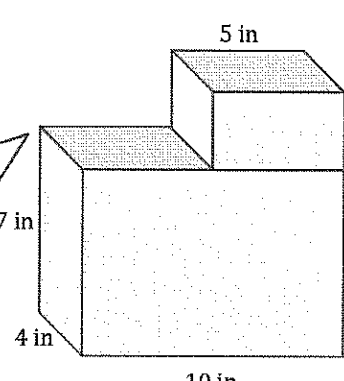


G5-M5-Lesson 6

1. Find the total volume of the figures, and record your solution strategy.

a.



Since the top figure is sitting directly on top of the bottom figure, without any gaps or overlaps, the width of both figures is 4 in.

The top figure has a length of 5 in and a height of 3 in.

I can find the volume of the top figure.
 $\text{Volume} = 5 \text{ in} \times 4 \text{ in} \times 3 \text{ in} = 60 \text{ in}^3$

I can find the volume of the bottom figure.
 $\text{Volume} = 10 \text{ in} \times 4 \text{ in} \times 7 \text{ in} = 280 \text{ in}^3$

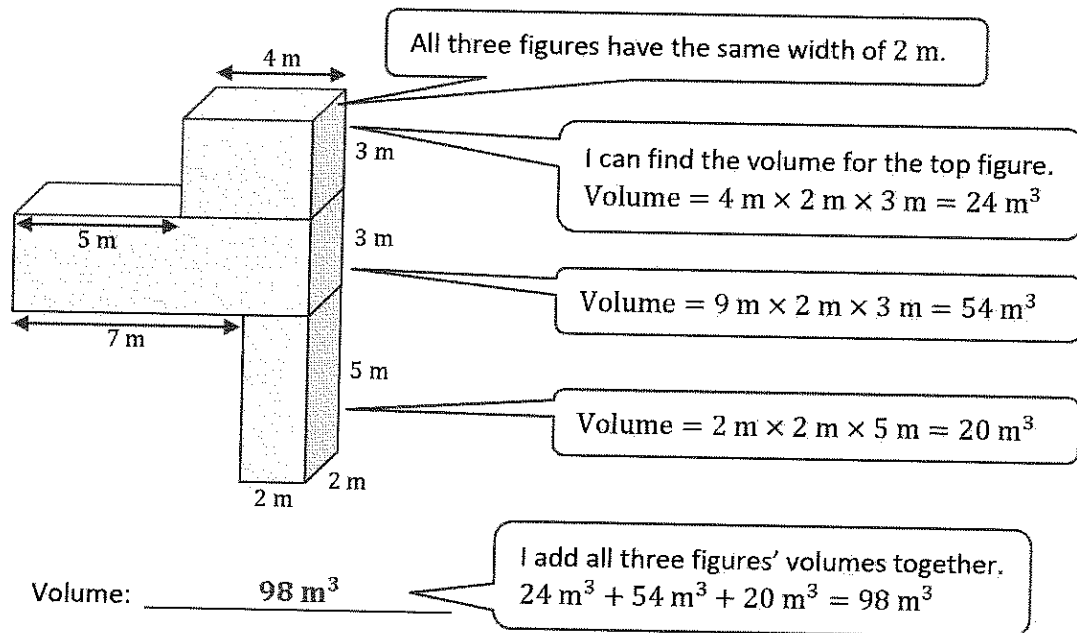
Volume: 340 in³

I will add both figures' volumes together. $60 \text{ in}^3 + 280 \text{ in}^3 = 340 \text{ in}^3$

Solution Strategy:

I found the top figure's volume, 60 in^3 , and the bottom figure's volume, 280 in^3 . Then, I added both volumes together to get a total of 340 in^3 .

b.



Solution Strategy:

I found the top figure's volume, 24 m³, the middle figure's volume, 54 m³, and the bottom figure's volume, 20 m³. Then, I added all three volumes together to get a total of 98 m³.

2. A fish tank has a base area of 65 cm² and is filled with water to a depth of 21 cm. If the height of the tank is 30 cm, how much more water will be needed to fill the tank to the brim?

