

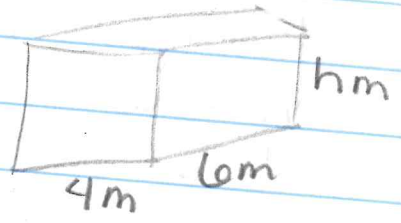
② Fir  
he  
③ B  
fi  
p  
④

Example - Missing dimensions

$$84 = 4 \cdot 6 \cdot h$$

$$\frac{84}{24} = \frac{24 \cdot h}{24}$$

$$3.5 = h$$



$$V = 84 \text{ m}^3$$

The height is 3.5 meters.

**9-4B**

Homework 9-4B

- can use calc, must show work + explain

Pg 572, 29, 28, 25abc, 24, 23abc, 18, 16

29. Volume is 3 dimensions

28. No the volume would be 8 times bigger b/c the formula would be multiplied by 2 3 times which equals 8.

24. <sup>First</sup>  $5 \cdot 4 \cdot 10 = 200$   
<sup>Second</sup>  $10 \cdot 5 \cdot 4 = 200$

They'd have the same volume.

23. a)  $5 \cdot 4 \cdot 5 \cdot 2 = 200 = 50.625$

b)  $5 \cdot 4 \cdot 5 \cdot 3 = 67.5$

$67.5 - 50.625 = 16.875 \text{ in}^3$

c)  $\frac{50.625}{67.5} = 0.75 = 75\%$   
full

25a. approx small truck  $11 \cdot 7 \cdot 7 \approx 539 \text{ ft}^3$

b) van  $\approx 10 \cdot 6.5 \cdot 6 = 390$

2-Bedroom  $\approx 14 \cdot 8 \cdot 7 = 784$

3 Bedroom  $\approx 21 \cdot 8 \cdot 8 = 1344$

Mega  $\approx 22 \cdot 8 \cdot 9 = 1584$

The Davis family should get a 3-bedroom van.

c) mega - 2bed  
 $1584 - 784$

The mega is about 800  $\text{ft}^3$  bigger.

18. Width = 3mm

16. Width = 24 ft