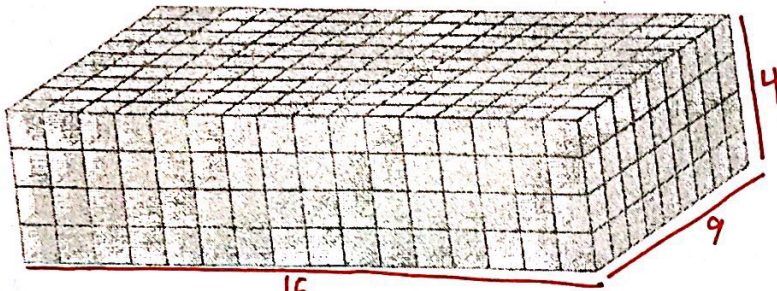


Prisms Worksheet**Show all of your work!!!**

1) Below is a picture of the boxes in the storeroom at Wilfred's Warehouse. How many boxes are there?



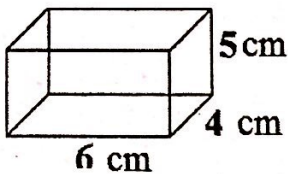
Find the volume of each prism.

$$V = l \cdot w \cdot h$$

$$V = 16 \cdot 9 \cdot 4$$

$$V = 576 \text{ boxes}$$

2)

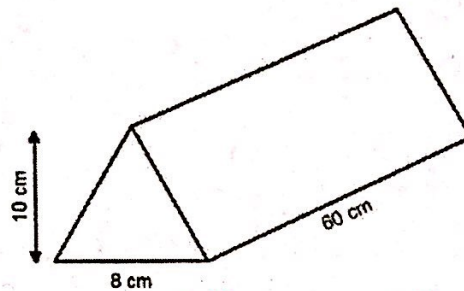


$$V = l \cdot w \cdot h$$

$$V = 6 \cdot 4 \cdot 5$$

$$V = 120 \text{ cm}^3$$

3)



$$V = \left(\frac{b \cdot h}{2}\right) \cdot l$$

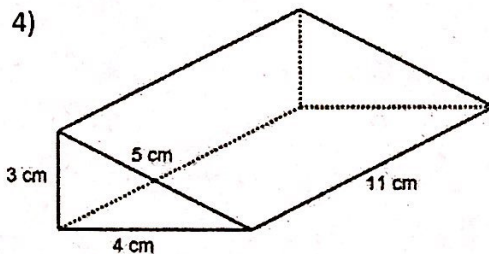
$$V = \left(\frac{8 \cdot 10}{2}\right) \cdot 60$$

$$V = \left(\frac{80}{2}\right) \cdot 60$$

$$V = 40 \cdot 60$$

$$V = 2400 \text{ cm}^3$$

4)



$$V = \left(\frac{b \cdot h}{2}\right) \cdot l$$

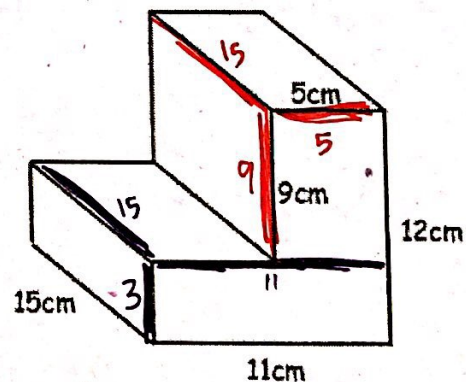
$$V = \left(\frac{4 \cdot 3}{2}\right) \cdot 11$$

$$V = \left(\frac{12}{2}\right) \cdot 11$$

$$V = 6 \cdot 11$$

$$V = 66 \text{ cm}^3$$

5)



$$\text{TOP: } 15 \cdot 9 \cdot 5 = 675$$

$$\text{BOTTOM: } 15 \cdot 3 \cdot 11 = 495$$

$$V = 1170 \text{ cm}^3$$

6) A swimming pool that is 8 meters long, 6 meters wide, and 1.5 meters deep is being filled with water. It takes 6 seconds for each cubic meter to flow into the pool. How many minutes will it take to fill the pool completely?

$$1) \text{ Volume of pool} = 8 \cdot 6 \cdot 1.5 = 72 \text{ m}^3$$

$$2) 72 \text{ m}^3 \cdot \frac{6 \text{ seconds}}{\text{m}^3} = 432 \text{ seconds}$$

$$3) 432 \text{ seconds} \div 60 = 7.2 \text{ minutes}$$