

# M5.L6 - Finding Total Volume with Multiple Rectangular Prisms

## Fluency

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

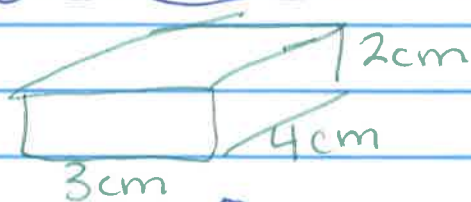
$$\frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$$

$$\frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$$

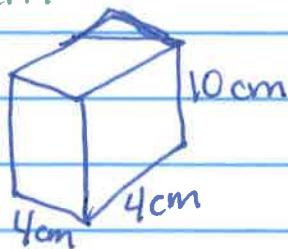
$$\frac{2}{3} \times \frac{3}{3} = \frac{6}{9} = \frac{2}{3}$$

$$\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$$

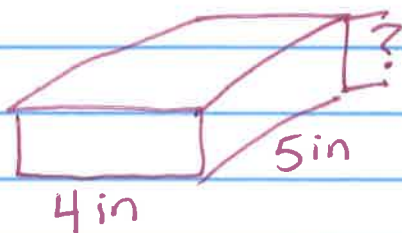
$$\frac{3}{4} \times \frac{3}{5} = \frac{9}{20}$$



$$V = (3 \text{ cm} \times 4 \text{ cm}) \times 2 \text{ cm}$$
$$V = 24 \text{ cm}^3$$

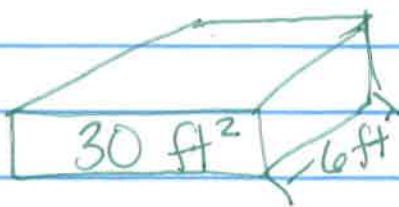


$$V = (4 \text{ cm} \times 4 \text{ cm}) \times 10 \text{ cm}$$
$$V = 160 \text{ cm}^3$$

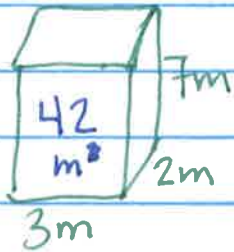


$$40 \text{ in}^3 = (4 \text{ in} \times 5 \text{ in}) \times h$$
$$\frac{40 \text{ in}^3}{20 \text{ in}^2} = \frac{20 \text{ in}^2 \times h}{20 \text{ in}^2}$$
$$2 \text{ in} = h$$

$$\text{Volume} = 40 \text{ in}^3$$

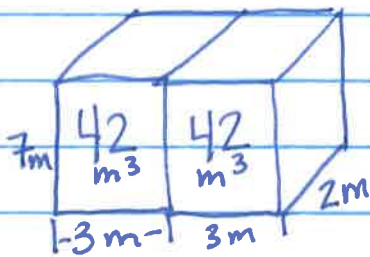


$$V = (30 \text{ ft}^2) \times 6 \text{ ft}$$
$$V = 180 \text{ ft}^3$$



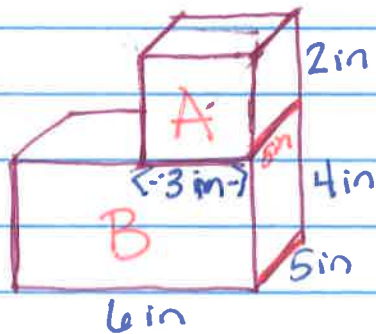
$$V = (3\text{ m} \times 2\text{ m}) \times 7\text{ m}$$

$$V = 42\text{ m}^3$$



$$V = 42\text{ m}^3 + 42\text{ m}^3$$

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



A =

$$V = (3\text{ in} \times 5\text{ in}) \times 2\text{ in}$$

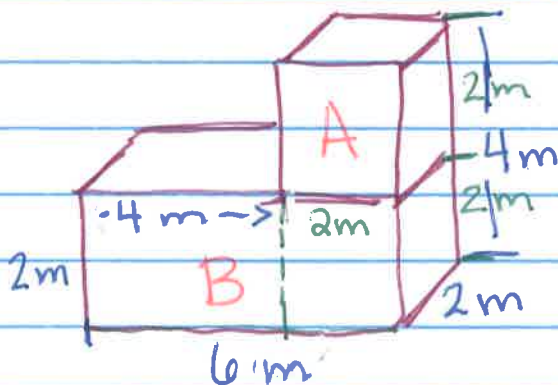
$$V = 30\text{ in}^3$$

B =

$$V = (6\text{ in} \times 5\text{ in}) \times 4\text{ in}$$

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

Total Volume =  $150\text{ in}^3$



A =

$$V = (2\text{ m} \times 2\text{ m}) \times 2\text{ m}$$

$$V = 8\text{ m}^3$$

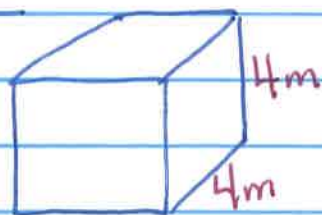
B =

$$V = (6\text{ m} \times 2\text{ m}) \times 2\text{ m}$$

$$V = 24\text{ m}^3$$

$$V = 32\text{ m}^3$$

AP



$$4m \\ = 64m^3$$

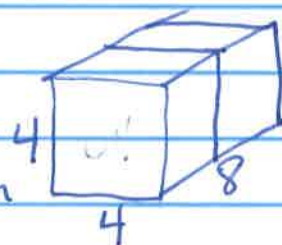
The Double

$$128m^3$$

$$V = 4m \times 8m \times 4m$$

$$V = 16 \times 8 \times 4$$

$$V = 1 \times 1 \times 128$$



The Half

$$32m^3$$