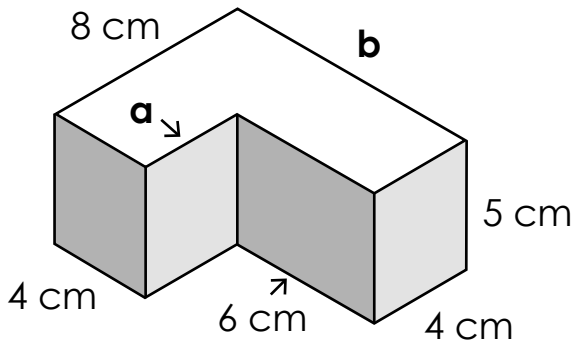


Name: _____

Volume of Composite Figures

Find the missing lengths and the volume of each solid figure.

a. $a = \underline{\hspace{1cm}} \text{ cm}$ $b = \underline{\hspace{1cm}} \text{ cm}$



Volume of part 1:

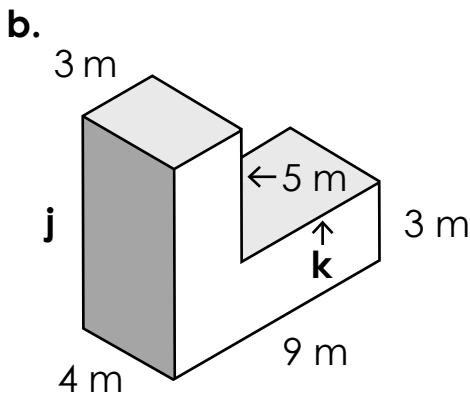
$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ cm}^3$

Volume of part 2:

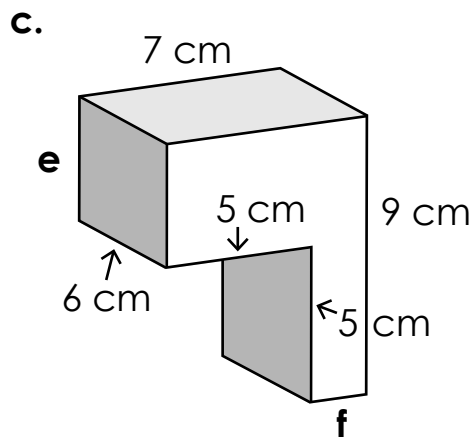
$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ cm}^3$

Volume of shape:

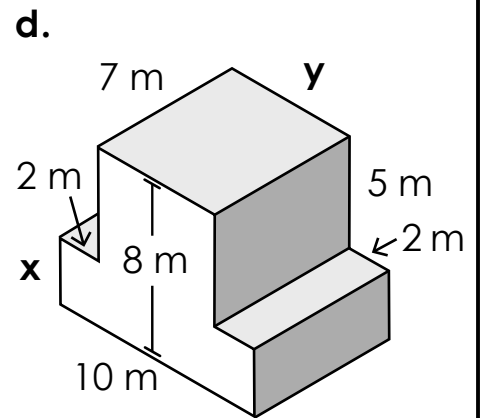
$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ cm}^3$



$j = \underline{\hspace{1cm}}$ $k = \underline{\hspace{1cm}}$



$e = \underline{\hspace{1cm}}$ $f = \underline{\hspace{1cm}}$



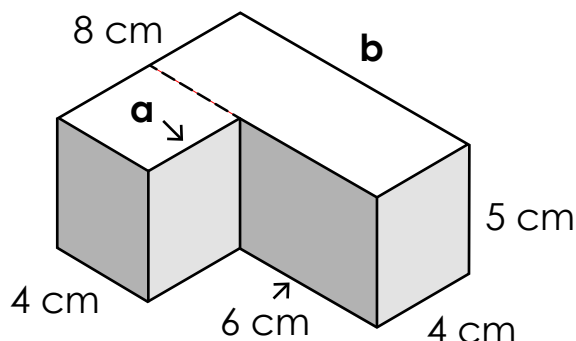
$x = \underline{\hspace{1cm}}$ $y = \underline{\hspace{1cm}}$

ANSWER KEY

Volume of Composite Figures

Find the missing lengths and the volume of each solid figure.

a.



$$a = \underline{4} \text{ cm} \quad b = \underline{10} \text{ cm}$$

Volume of part 1:

$$\underline{4} \times \underline{4} \times \underline{5} = \underline{80} \text{ cm}^3$$

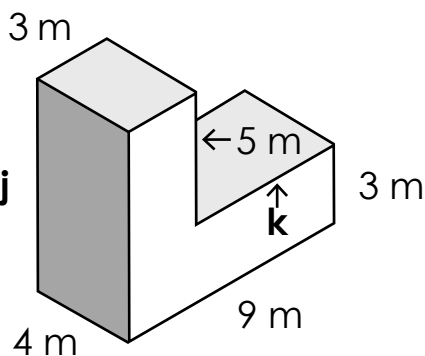
Volume of part 2:

$$\underline{10} \times \underline{4} \times \underline{5} = \underline{200} \text{ cm}^3$$

Volume of shape:

$$\underline{80} + \underline{200} = \underline{280} \text{ cm}^3$$

b.



$$j = \underline{8} \quad k = \underline{6}$$

$$\underline{3 \times 4 \times 8 = 96 \text{ m}^3}$$

$$\underline{3 \times 4 \times 6 = 72 \text{ m}^3}$$

$$\underline{96 + 72 = 168 \text{ m}^3}$$

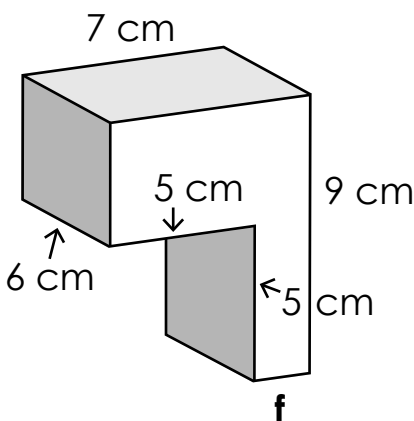
or

$$\underline{3 \times 4 \times 5 = 60 \text{ m}^3}$$

$$\underline{3 \times 4 \times 9 = 108 \text{ m}^3}$$

$$\underline{60 + 108 = 168 \text{ m}^3}$$

c.



$$e = \underline{4} \quad f = \underline{2}$$

$$\underline{4 \times 6 \times 7 = 168 \text{ cm}^3}$$

$$\underline{2 \times 5 \times 6 = 60 \text{ cm}^3}$$

$$\underline{168 + 60 = 228 \text{ cm}^3}$$

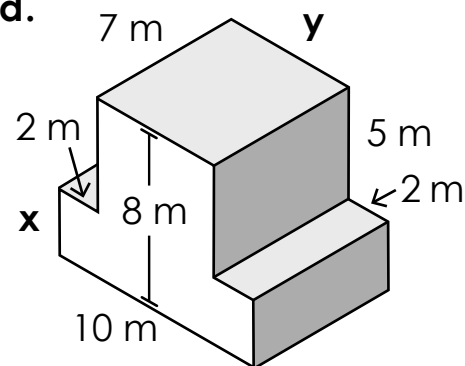
or

$$\underline{4 \times 5 \times 6 = 120 \text{ cm}^3}$$

$$\underline{2 \times 6 \times 9 = 108 \text{ cm}^3}$$

$$\underline{120 + 108 = 228 \text{ cm}^3}$$

d.



$$x = \underline{3} \quad y = \underline{6}$$

$$\underline{3 \times 7 \times 10 = 210 \text{ m}^3}$$

$$\underline{5 \times 6 \times 7 = 210 \text{ m}^3}$$

$$\underline{210 + 210 = 420 \text{ m}^3}$$

or

$$\underline{6 \times 7 \times 8 = 336 \text{ m}^3}$$

$$\underline{2 \times 3 \times 7 = 42 \text{ m}^3}$$

$$\underline{2 \times 3 \times 7 = 42 \text{ m}^3}$$

$$\underline{336 + 42 + 42 = 420 \text{ m}^3}$$