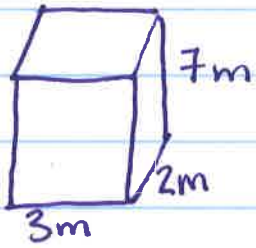
M5:L6 3-28-19

Find the total volume of 2 rectangular prisms

PA - $3\text{ cm} \times 2\text{ cm} \times 2\text{ cm} = 12\text{ cm}^3$

PB - cube - $2\text{ cm} = 8\text{ cm}^3$

$= 20\text{ cm}^3$

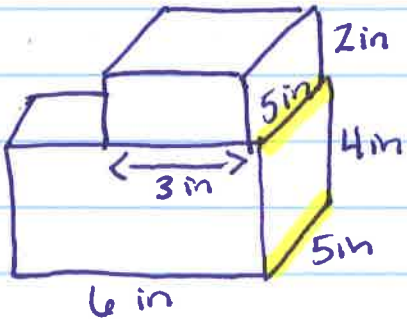


$(3\text{ cm} \times 2\text{ cm}) \times 7\text{ cm}$

$6\text{ cm}^2 \times 7$

42 cm^3

$42 \times 2 = 84\text{ cm}^3$



150 in^3

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

$30\text{ in}^2 \times 4$

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

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

$15\text{ in}^2 \times 2$

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

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

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

$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

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

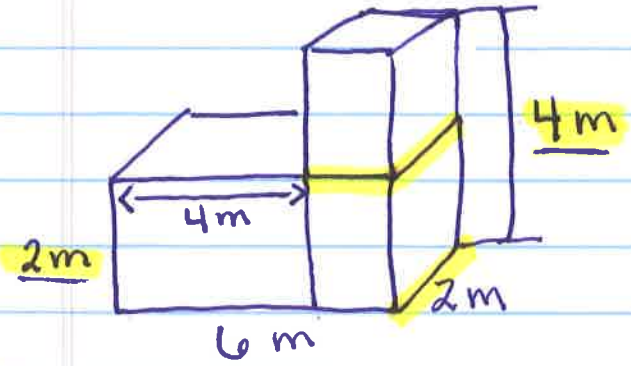
$\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$

$\frac{1}{3} \times \frac{3}{3} = \frac{3}{9}\left(\frac{1}{3}\right)$ $\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$

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

$3 \times 4 \times 2$

$4 \times 4 \times 10$



$V = 32\ m^3$

$V = (6m \times 2m) \times 2m$

$12\ m^2 \times 2m$

$V = 24\ m^3$

$V = (2m \times 2m) \times 2m$

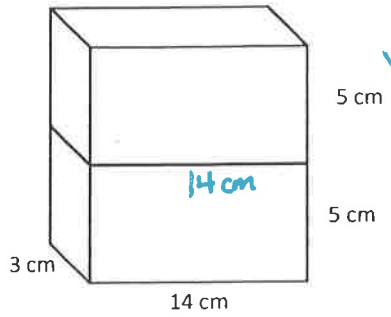
$4\ m^2 \times 2\ m$

$V = 8\ m^3$

Name _____ Date _____

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

a.



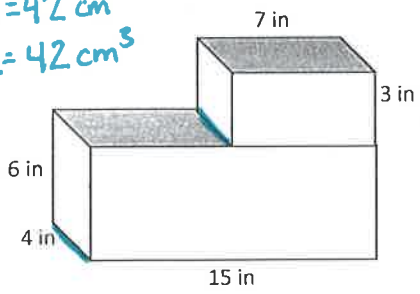
$V = 14 \times 3 \times 5 = 42 \text{ cm}^3$

$V = 14 \times 3 \times 5 = 42 \text{ cm}^3$

Volume: 84 cm^3

Solution Strategy:

b.



$V = 15 \times 4 \times 6 = 360$

$60 \times 6 =$

$V = 7 \times (4 \times 3)$

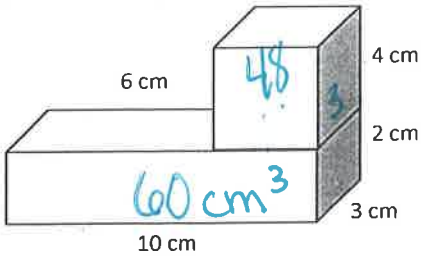
7×12

84

Volume: $360 \text{ in}^3 + 84 \text{ in}^3 = 444 \text{ in}^3$

Solution Strategy:

c.



48

3

60 cm^3

Volume: 108 cm^3

Solution Strategy:

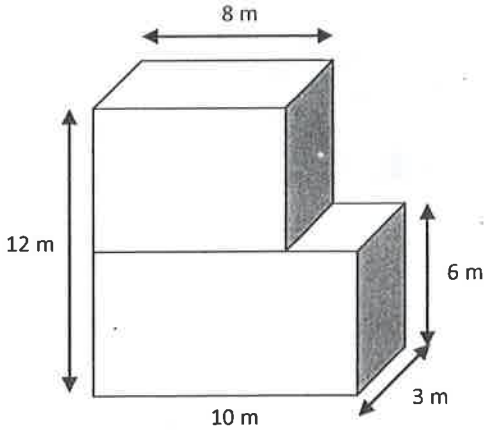
$V = 10 \times 3 \times 2$

60 cm^3

$V \quad 4 \times 3 \times 4$

48 cm^3

d.



Volume: _____

Solution Strategy: