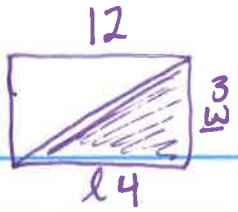
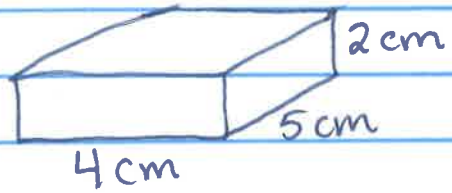
M5.L5 - Volume

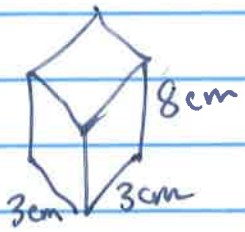


$\frac{1}{2}bh$

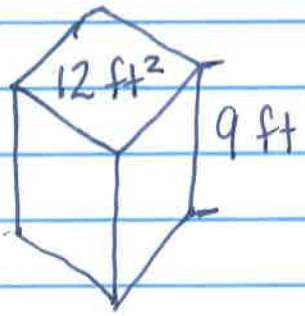
Fluency



$l = 4\text{ cm}$
$w = 5\text{ cm}$
$h = 2\text{ cm}$
$V = (4\text{ cm} \times 5\text{ cm}) \times 2\text{ cm}$
$V = 40\text{ cm}^3$

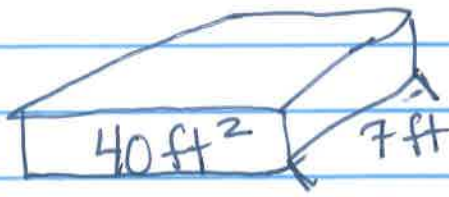


$l = 3\text{ cm}$
$w = 3\text{ cm}$
$h = 8\text{ cm}$
$V = (3\text{ cm} \times 3\text{ cm}) \times 8\text{ cm}$
$V = 72\text{ cm}^3$



$\text{Area} = 12\text{ ft}^2$
$h = 9\text{ ft}$
$V = (12\text{ ft}^2) \times 9\text{ ft}$
$V = 108\text{ ft}^3$

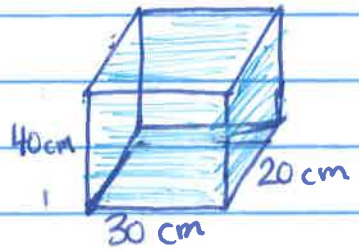
12
9
8



$\text{Base} = 40\text{ ft}^2$
$\text{width} = 7\text{ ft}$
$V = (40\text{ ft}^2) \times 7\text{ ft}$
$V = 280\text{ ft}^3$

$1\ cm^3 = 1\ mL$

Volume = Capacity



Volume = (30 cm x 20 cm) x 40 cm

$V = (600\ cm^2) \times 40$

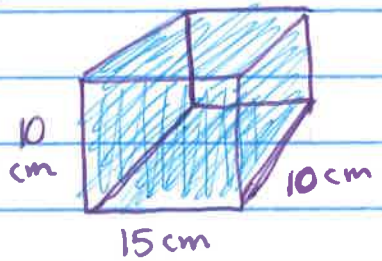
$V = 24000\ cm^3$

24,000 mL = 24 L

E = 24000 x 1 mL

C 24000 x 0.001 L

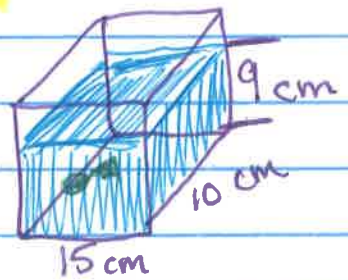
A 24 L



$V = (15\ cm \times 10\ cm) \times 10\ cm$

$V = 1500\ cm^3$

Volume of Water = 1500 mL



Volume of Water =

Volume = (15 cm x 10 cm) x 9 cm

$V = 1350\ cm^3$

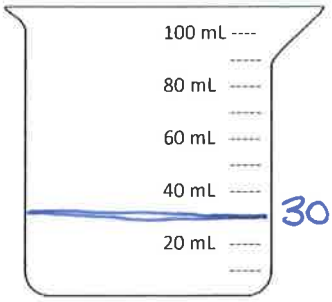
1350 mL

Water Left

1500 mL − 1350 mL = 150mL

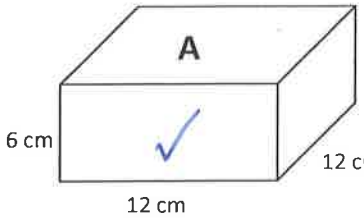
Name _____ Date _____

1. Johnny filled a container with 30 centimeter cubes. Shade the beaker to show how much water the container will hold. Explain how you know.

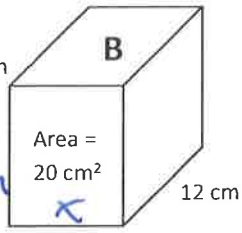


2. A beaker contains 250 mL of water. Jack wants to pour the water into a container that will hold the water. Which of the containers pictured below could he use? Explain your choices.

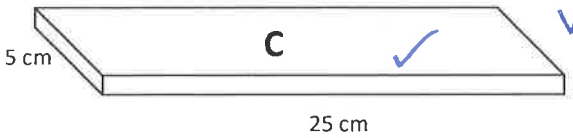
V = 25 cm × 2cm × 5cm
V = 250 cm³

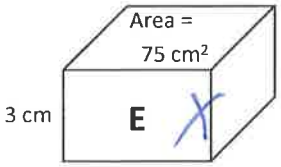


V = 6 cm × 12cm × 12cm
V = 864 cm³

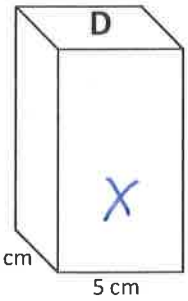


V = 20 cm² × 12 cm
V = 240 cm³





V = 75cm² × 3cm
V = 225 cm³



V = 3 cm × 5cm × 15cm
V = 225 cm²

3. On the back of this paper, describe the details of the activities you did in class today. Include what you learned about cubic centimeters and milliliters. Give an example of a problem you solved with an illustration.