5th Grade Advanced – Unit 6 Study Guide

Vocabulary

Word	Definition	Example
Volume		
Line Plot		
Redistribute		
Area		
Conversion/Convert		
Metric		
Customary		
Unit Cube		

Volume
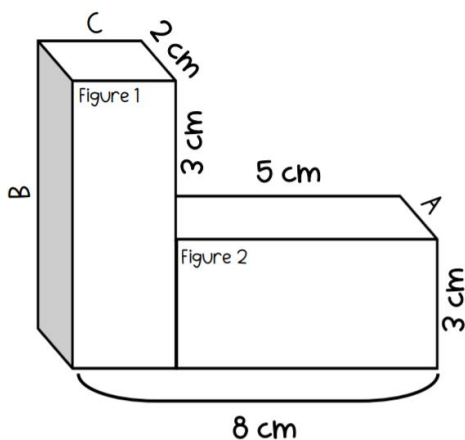
Measure of Side A: _____

Measure of Side B: _____

Measure of Side C: _____

Volume of Figure 1: _____

Volume of Figure 2: _____

Total Volume: _____

C

2 cm

Figure 1

3 cm

B

5 cm

A

Figure 2

3 cm

8 cm

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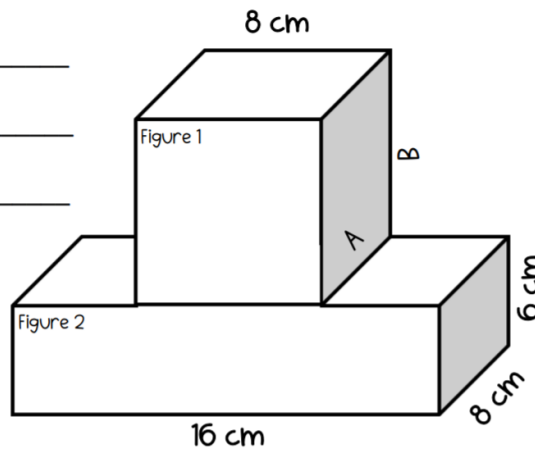
Measure of Side A: _____

Measure of Side B: _____

Volume of Figure 1: _____

Volume of Figure 2: _____

Total Volume: _____

8 cm

Figure 1

B

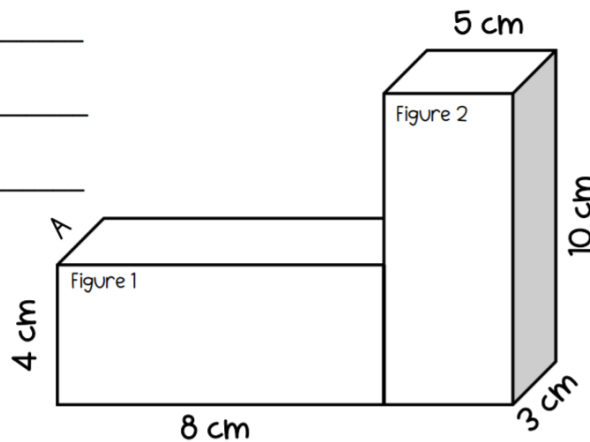A

6 cm

8 cm

Figure 2

16 cm

Measure of Side A: _____

Volume of Figure 1: _____

Volume of Figure 2: _____

Total Volume: _____

5 cm

Figure 2

10 cm

A

Figure 1

4 cm

3 cm

8 cm

Patrick put his toys in a box that has a base area of 50 square inches. If the box is 10 inches tall, what is the volume of the box?

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Devin has a huge aquarium for his fish. The volume of the aquarium is 90 cubic feet. If the height is three feet, what are two sets of possible dimensions for his fish tank?

Jamie bought a crate of peaches that had a width of 10 inches, a height of 3 inches, and a total volume of 150 cubic inches. What is the length of his crate?

Conversions

1. 84 in. = _____ ft
(remember, 1 foot = 12 inches)

2. 64,000 lb =
_____ T
(remember, 1 ton = 2,000 pounds)

3. 120 mm =
_____m
(remember, 1000mL = 1L)

4. .523 kg =
_____ g
(remember 1000g = 1kg)

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Ted jogs 5.7 kilometers every morning before soccer practice. How far does he jog in meters?

Alexis carried 15.28 kilograms of firewood. How much firewood did Alexis carry in milligrams?

Line Plots

Ms. Fullerton was working on a craft project using ribbon. She wanted to use up all of her ribbon scraps to make a wreath. To figure out how many of each ribbon length she has in her stash, she wants to create a line plot but can't remember how. Help her out by making a line plot below and using it to answer the questions.

Ribbon Lengths in inches:

$\frac{1}{8}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{3}{8}$, $\frac{3}{8}$, 1, 1$\frac{1}{4}$, 1$\frac{1}{4}$

If Ms. Fullerton added up the length of the five smallest pieces of ribbon, what would the total length of ribbon be?

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Mr. Lew and Ms. Fullerton have the same birthday! They decided to throw a joint birthday party for all of their friends. Before the party, Ms. Childs looked at the glasses of soda on the counter and realized that they were uneven. Use the data below to create a line plot and answer the questions.

Amount of soda in each cup (in cups):

$\frac{1}{4}$, $\frac{1}{4}$ $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{8}$, 1, 1, 1 $\frac{1}{4}$, 2 $\frac{1}{2}$

If Ms. Childs wanted to make sure all the glasses had the same amount of soda in them, how much soda should each glass contain?