Unit: Metric System

Lesson #: Volume

Aim: How do we measure volume?

Standards:

Materials/Resources:

http://www.wisc-online.com/Objects/ViewObject.aspx?ID=ABM4202

Do Now:

Vocabulary:

Volume

Cubic

Procedure/Focus Questions:

Volume is the measurement of how much space something takes up, such as

Water displacement – ice cubes in a full glass

Liter = standard unit of volume (L)

Milliliter = 1/1000 of a liter (ml)

Kiloliter = 1000 liters (KL)

Volume equals length times width times height.

V = L x W x H

1.0cm x 1.0cm x 1.0cm = 1.0 cubic cm

Practice:

Measuring Volume Worksheet

Assessment:

Reflections:

Aim: How do we measure volume?

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http://www.wisc-online.com/Objects/ViewObject.aspx?ID=GCH302

Aim: How do we measure volume?

12. Calculate: How many milliliters of water would fill a 12-cm^3 box?
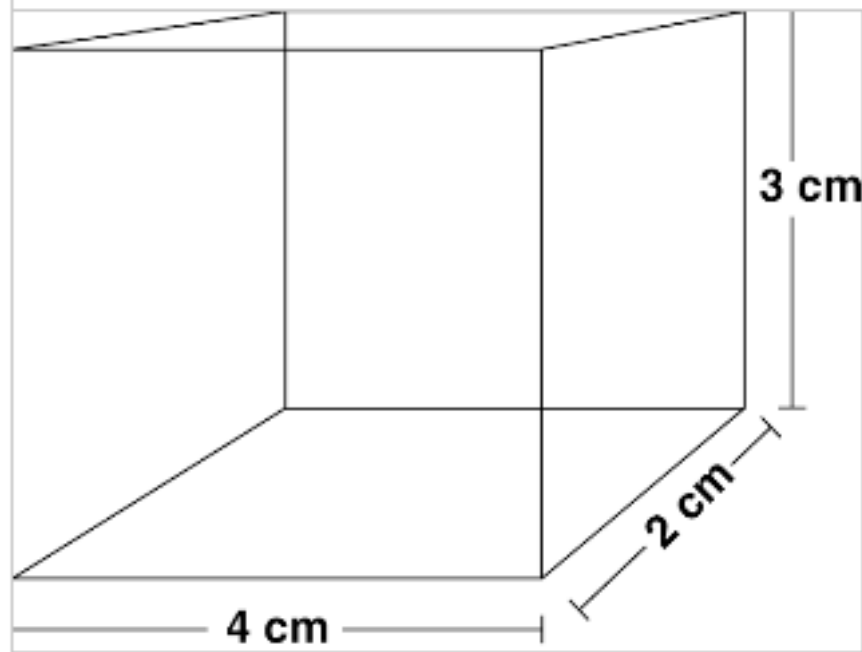
Aim: How do we measure volume?

Measuring Volume

Write *true* if the statement is true. If the statement is false, change the underlined word to make the statement true.

_____ 1. A <u>balance</u> can be used to measure volume.

_____ 2. A large bottle of water could be measured in <u>centimeters</u>.

_____ 3. The amount of space an object takes up is its <u>volume</u>.

_____ 4. The volume of a cube that measures 10 cm on each side is <u>10,000 cm^3</u>.

_____ 5. When using a glass graduated cylinder partially filled with water, always read the mark closest to the <u>bottom</u> of the meniscus.

_____ 6. To find the volume of a box, multiply its length by its width by its <u>height</u>.

_____ 7. A graduated cylinder should be read at <u>eye level</u>.

_____ 8. One <u>milliliter</u> of liquid will completely fill a box with a volume of 1,000 cm^3.
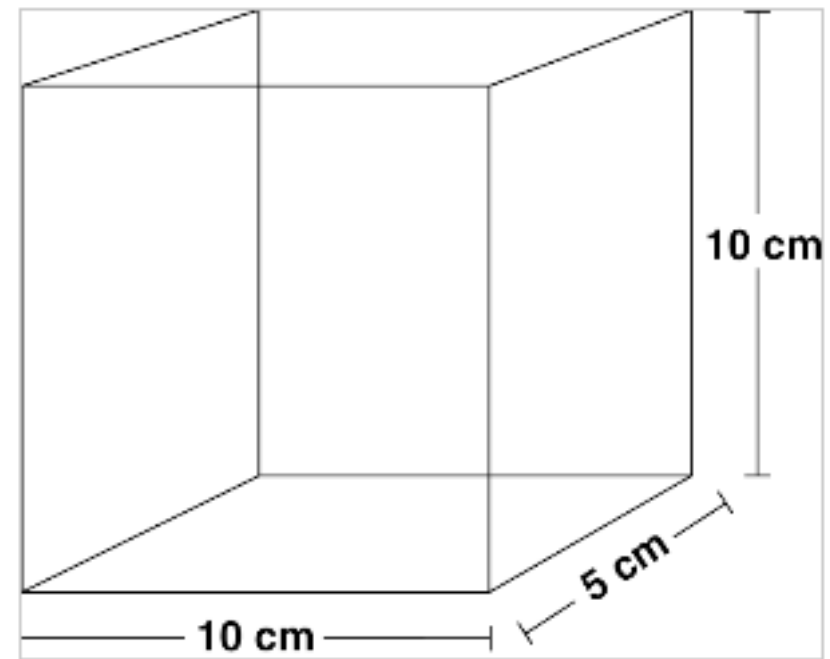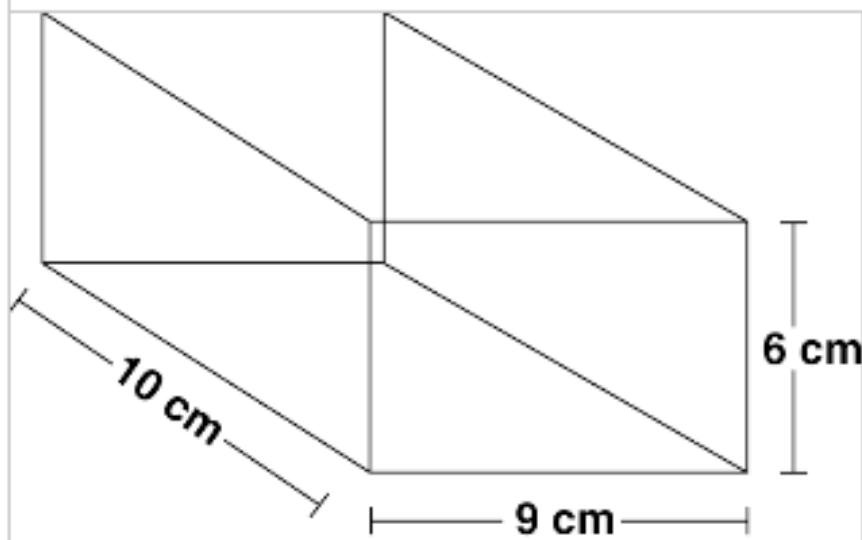
Aim: How do we measure volume?

Skills: *calculating, using formulas*

Find the volume of each figure shown below. Write your answers in the spaces provided.

3 cm

2 cm

4 cm

1. _____

10 cm
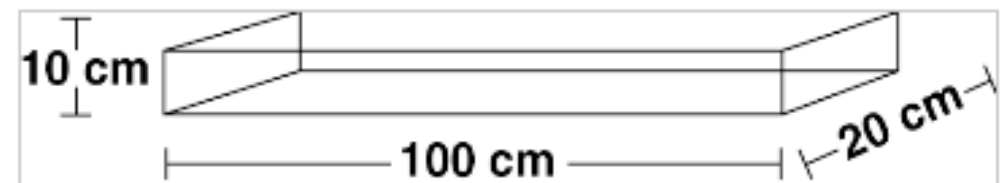
5 cm

10 cm

2. _____

Aim: How do we measure volume?

Skills: *calculating, using formulas*

Find the volume of each figure shown below. Write your answers in the spaces provided.

10 cm

6 cm

9 cm

10 cm

100 cm

20 cm

3. _____

4. _____