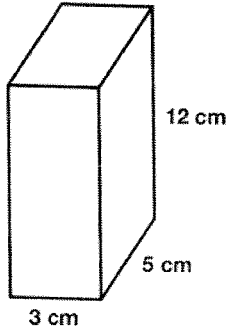


Name: \_\_\_\_\_

# Volume



To find the volume of a rectangular prism, multiply the length by the width by the height.

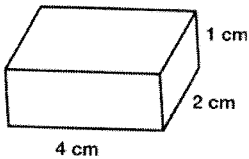
$$\text{Volume} = l \times w \times h$$

$$\text{Volume} = 3\text{cm} \times 5\text{cm} \times 12\text{cm}$$

$$\text{Volume} = 180\text{cm}^3$$

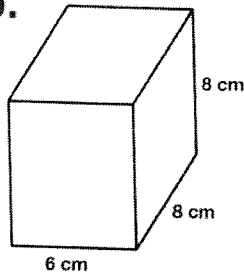
Calculate the volume of each rectangular prism.

a.



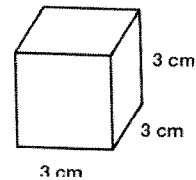
Volume = \_\_\_\_\_

b.



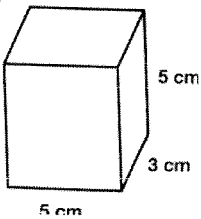
Volume = \_\_\_\_\_

c.



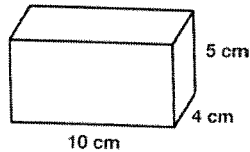
Volume = \_\_\_\_\_

d.



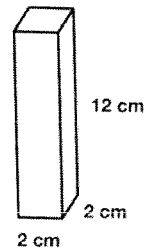
Volume = \_\_\_\_\_

e.



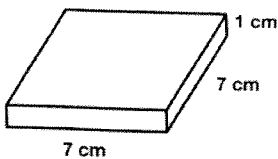
Volume = \_\_\_\_\_

f.



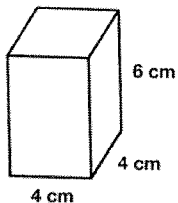
Volume = \_\_\_\_\_

g.



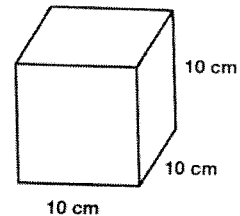
Volume = \_\_\_\_\_

h.



Volume = \_\_\_\_\_

i.



Volume = \_\_\_\_\_

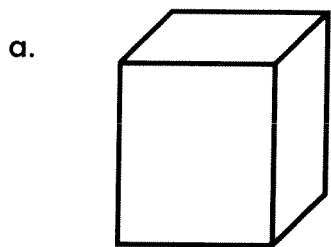
Name: \_\_\_\_\_

## Volume of Rectangular Prisms

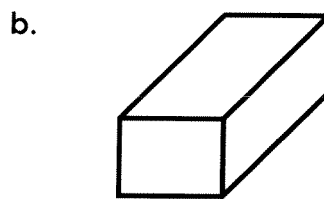
Jenna paints small wooden boxes and places her gemstones in them. The table below shows the dimensions of each box. Find the volume for each box.

box color	length	width	height	volume
red box	9 in.	6 in.	2 in.	
blue box	2 in.	4 in.	7 in.	
green box	3 in.	5 in.	5 in.	
yellow box	8 in.	4 in.	3 in.	
orange box	4 in.	6 in.	7 in.	
brown box	2 in.	5 in.	8 in.	

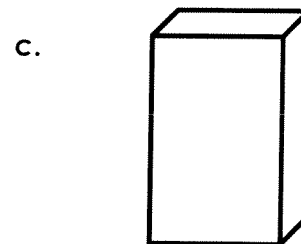
Color each box the correct color.



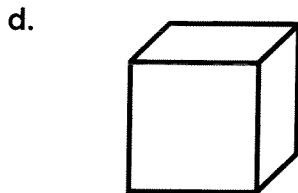
volume =  $168 \text{ in.}^3$



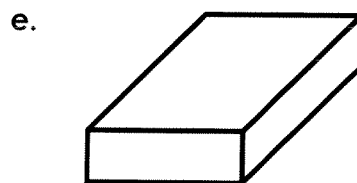
volume =  $96 \text{ in.}^3$



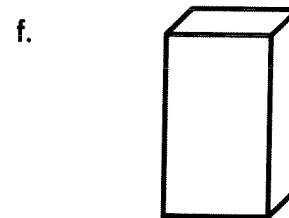
volume =  $80 \text{ in.}^3$



volume =  $75 \text{ in.}^3$



volume =  $108 \text{ in.}^3$



volume =  $56 \text{ in.}^3$

- g. Jenna also has a black box. It is 14 inches tall, 3 inches deep, and 2 inches wide. What is the volume of this box?

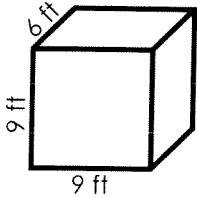
\_\_\_\_\_

Name: \_\_\_\_\_

## Volume of Rectangular Prisms

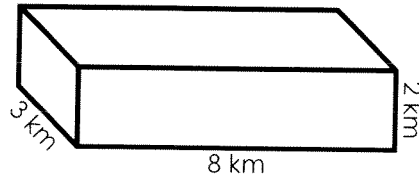
Find the volume of each rectangular prism. Don't forget to label the units.

a.



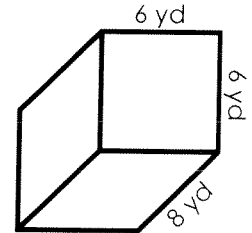
volume: \_\_\_\_\_

b.



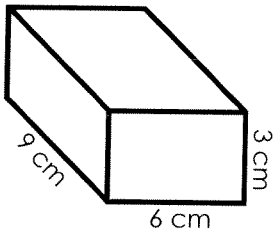
volume: \_\_\_\_\_

c.



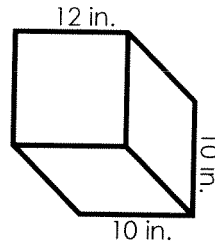
volume: \_\_\_\_\_

d.



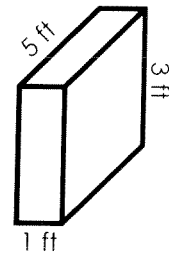
volume: \_\_\_\_\_

e.



volume: \_\_\_\_\_

f.



volume: \_\_\_\_\_

g.

$l = 9 \text{ m}$   
 $w = 7 \text{ m}$   
 $h = 3 \text{ m}$

volume: \_\_\_\_\_

h.

$l = 12 \text{ mi}$   
 $w = 2 \text{ mi}$   
 $h = 3 \text{ mi}$

volume: \_\_\_\_\_

i.

$l = 5 \text{ km}$   
 $w = 8 \text{ km}$   
 $h = 4 \text{ km}$

volume: \_\_\_\_\_

j.

$l = 2 \text{ in.}$   
 $w = 6 \text{ in.}$   
 $h = 10 \text{ in.}$

volume: \_\_\_\_\_

k.

$l = 11 \text{ mm}$   
 $w = 9 \text{ mm}$   
 $h = 3 \text{ mm}$

volume: \_\_\_\_\_

l.

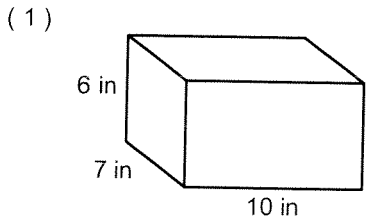
$l = 5 \text{ ft}$   
 $w = 7 \text{ ft}$   
 $h = 7 \text{ ft}$

volume: \_\_\_\_\_

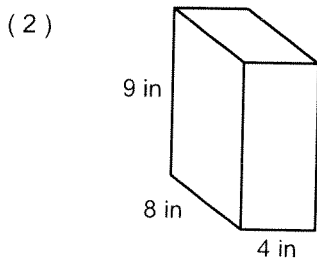
# Calculating Volume

Name: \_\_\_\_\_ Date: \_\_\_\_\_

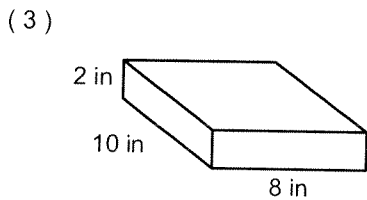
Calculate the volume of each solid.



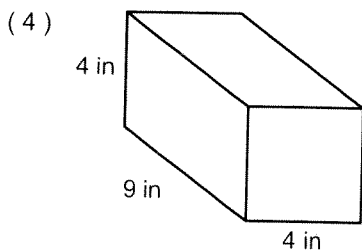
Volume: \_\_\_\_\_



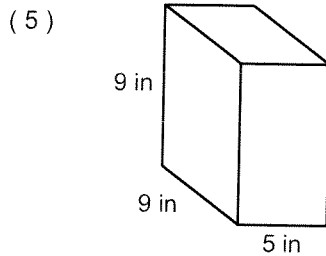
Volume: \_\_\_\_\_



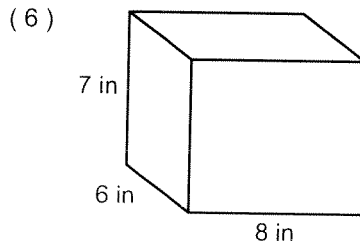
Volume: \_\_\_\_\_



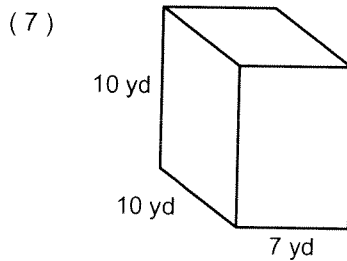
Volume: \_\_\_\_\_



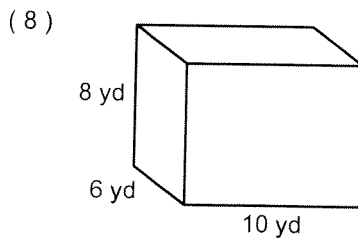
Volume: \_\_\_\_\_



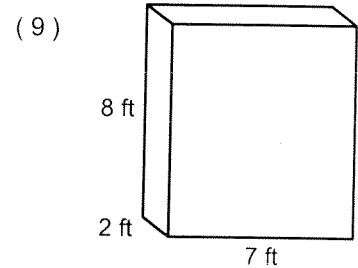
Volume: \_\_\_\_\_



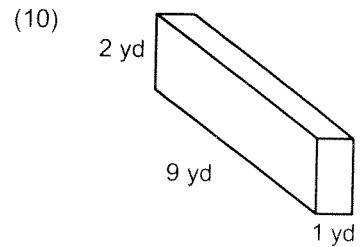
Volume: \_\_\_\_\_



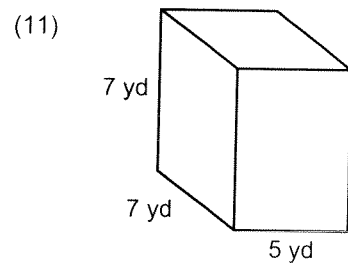
Volume: \_\_\_\_\_



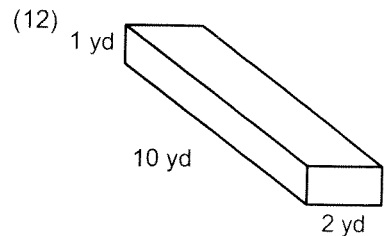
Volume: \_\_\_\_\_



Volume: \_\_\_\_\_



Volume: \_\_\_\_\_



Volume: \_\_\_\_\_