

Name: _____

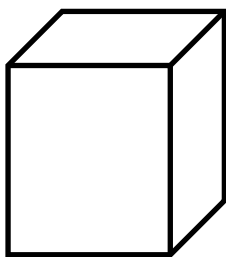
Volume of Rectangular Prisms

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.	

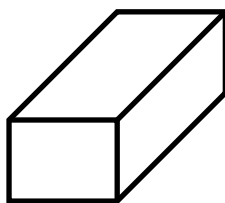
Color each box the correct color.

a.



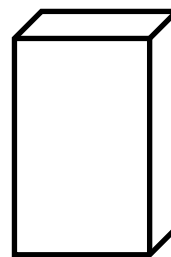
$$\text{volume} = 168 \text{ in.}^3$$

b.



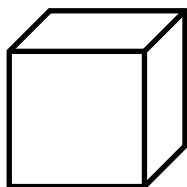
$$\text{volume} = 96 \text{ in.}^3$$

c.



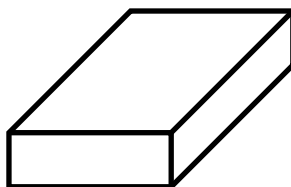
$$\text{volume} = 80 \text{ in.}^3$$

d.



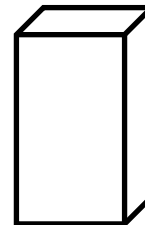
$$\text{volume} = 75 \text{ in.}^3$$

e.



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

f.



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

- 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?

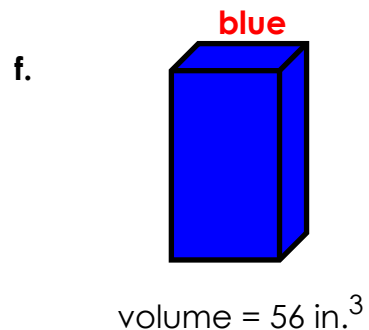
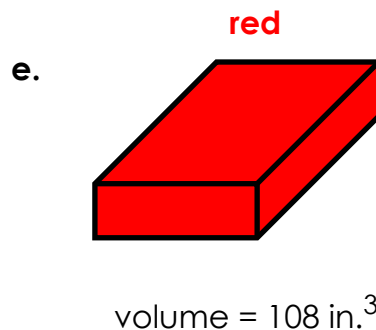
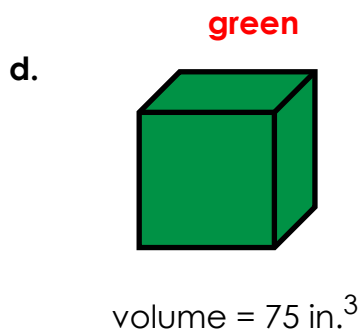
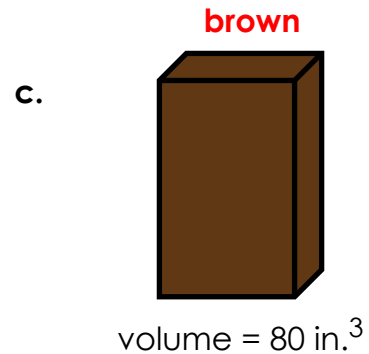
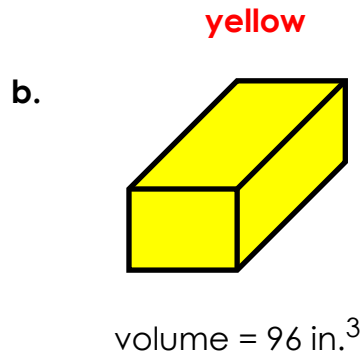
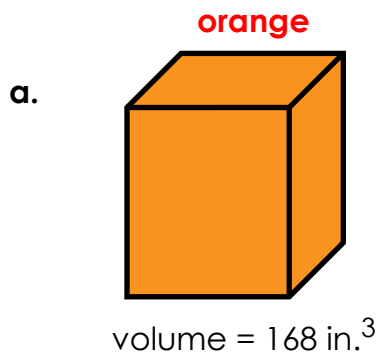
ANSWER KEY

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.	108 in.³
blue box	2 in.	4 in.	7 in.	56 in.³
green box	3 in.	5 in.	5 in.	75 in.³
yellow box	8 in.	4 in.	3 in.	96 in.³
orange box	4 in.	6 in.	7 in.	168 in.³
brown box	2 in.	5 in.	8 in.	80 in.³

Color each box the correct color.



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?

84 in.³