

Name: _____

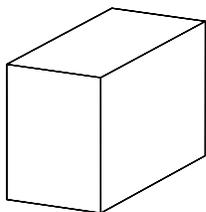
Volume of Rectangular Prisms

Benicio is painting small boxes to use in a diorama. The table below shows the dimensions of each box. Find the volume of each box.

box color	length	width	height	volume
red	$4\frac{1}{2}$ cm	$9\frac{1}{2}$ cm	12 cm	
blue	$14\frac{2}{5}$ cm	$6\frac{3}{5}$ cm	$8\frac{4}{5}$ cm	
green	$10\frac{1}{3}$ cm	$4\frac{2}{3}$ cm	$9\frac{1}{3}$ cm	
yellow	6 cm	$13\frac{1}{2}$ cm	$10\frac{1}{2}$ cm	
orange	$9\frac{2}{3}$ cm	8 cm	$7\frac{2}{3}$ cm	
brown	$13\frac{1}{5}$ cm	$12\frac{1}{5}$ cm	$11\frac{3}{5}$ cm	

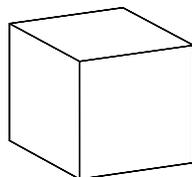


d.



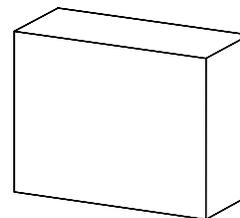
$$\text{volume} = 836\frac{44}{125} \text{ cm}^3$$

e.



$$\text{volume} = 592\frac{24}{27} \text{ cm}^3$$

f.



$$\text{volume} = 850\frac{1}{2} \text{ cm}^3$$

- g. Benicio also made a purple box. It is $5\frac{4}{5}$ cm tall, $7\frac{1}{5}$ cm deep, and $9\frac{3}{5}$ cm wide. What is the volume of this box? Write your answer as a mixed number.

ANSWER KEY

Volume of Rectangular Prisms

Benicio is painting small boxes to use in a diorama. The table below shows the dimensions of each box. Find the volume of each box.

box color	length	width	height	volume
red	$4\frac{1}{2}$ cm	$9\frac{1}{2}$ cm	12 cm	513 cm^3

Preview

Please log in to download
the printable version of this worksheet.



what is the volume of this box? write your answer as a mixed number.

$400\frac{112}{125}\text{ cm}^3$