

Find the area of each rectangle.

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Finding the Area of Rectangles

Find the area of the rectangles below. Write a number sentence for each problem and explain how you found the area.





Area =	
Number sentence:	

Explanation:



Practice			
Solve	2.		
3	36 inches = feet	(4) inches = 5 feet	
5	18 inches = feet	$(6) \frac{1}{2} \text{ foot} = \underline{\qquad} \text{ inches}$	



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Co Ev	omparing veryday O	Volumes of bjects	Home Link 1-5	DATE	TIME
Find	these (or similar)	items in your house:			SRB
	a cereal bowl	a drinking glass	a coffee mug		230
1	Which item has	the greatest volume?			
2	Which item has t	the smallest volume?			
3	Explain your ans	wers to Problems 1 and 2.			

Practice

Find the area of each rectangle.





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Volume Measurement

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Volume is the measure of the amount of space a 3-dimensional object takes up. When we talk about the volume of a container (for example, a vase, a can, a glass, a bowl, a bucket, a box), we are talking about the amount the container can hold.

Only 3-dimensional objects take up space and have volume. Two-dimensional shapes have other attributes that we can measure, such as length and area. But 2-dimensional shapes do not have volume.

(1)

) Circle each item below that has volume.

a wiggly line drawn on paper	a blue rectangle
a bar of soap	a bucket
a circle	a swimming pool
a baseball	a drawing of a flower pot
an empty crayon box	a cereal box
a drawing of a tree	the kitchen sink

(2) Choose one of the items you circled. Describe one way you could measure the volume of that item. Be sure to tell what unit you would use and why.

Practice

Solve.

- **(3)** (30 + 40) * 5 = _____
- **(4)** 30 + (40 * 5) = _____
- **(5)** (694 95) + (2 + 3) = _____
- $(6) \quad \underline{\qquad} = 15 (12 + 6 3)$

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More Cube-Stacking Problems

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SRB 231

The cubes in each rectangular prism are the same size. Each prism has at least one stack of cubes that goes up to the top. Find the total number of cubes needed to completely fill each prism. Then find the volume of each prism.



Volume of Prism C: _____ cubic units



Tom, Ed, and Anu started packing the boxes. They wonder if each box is big enough to hold at least 100 cubes.

student to receive a box with at least 100 unit cubes.



Comparing Volumes

Home Link 1-9

SRB 233

Today you learned two different formulas to find the volume of a rectangular prism:

 $V = I \times w \times h$ (volume = length \times width \times height)

 $V = B \times h$ (volume = area of the base \times height)

Use the formulas to find the volume of each prism. Be sure to include a unit. Cross out the prism in each set that has a volume different than the other prisms.



(3) $4\frac{1}{2}$ cm $4\frac{1}{2}$ cm 4rea = Area = Area = Area =

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Comparing Volume Units

Circle the volume unit that is larger.

|--|

- (2) cubic millimeters cubic inches
- (3) cubic miles cubic decimeters
- (4) cubic meters cubic feet
- (5) Explain how you knew which volume unit was larger in Problems 1–4.

Find an object around your home that you might measure with the given unit.

Practice	
8	cubic feet
7	cubic meters
6	cubic inches

Find the volume of a rectangular prism with the given dimensions.

(9) length = 8 meters

(10) area of the base = 25 inches²

height = 4 inches

_____ inches³

height = 5 meters

width = 2 meters

_____ meters³



TIME

DATE

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NAME





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Number sentence(s):

Three rounds of *Prism Pile-Up* are shown below. For each round:

- Find the volume of each figure.
- Circle the winning card (the card with the figure that has a greater volume).
- Write one or more number sentences for the winning card.

Round 1





 $V = cm^3$



Round 2





 $V = _ cm^3$

 $V = cm^3$

Round 3





 $V = _ cm^3$ $V = _ cm^3$ Number sentence(s):

Number sentence(s):



