6–1 Name _____ Date _____

Homework

Solve. *Show your work.*

1. The inside of a refrigerator is 6 feet tall, 3 feet wide, and 2 feet deep. How many cubic feet of space are inside the refrigerator?

_____

2. Isabel wants to estimate the volume of her bedroom, if her bedroom was empty. Her bedroom measures 4 meters long, 3 meters wide, and 3 meters tall. What is the volume of Isabel's bedroom?

_____

3. Miguel is painting letters of the alphabet on cubes. He will paint one letter of the alphabet on each face of each cube. He knows that there are 26 letters in the alphabet. How many cubes will he need if he paints each letter once? How many faces on the last cube will be empty?

_____

4. How does the volume of a prism change if each dimension of the prism is doubled?

_____

5. A rectangular prism has a length of 4 cm and a width of 5 cm. The volume of the prism is 200 cu cm. The height of the prism is unknown. Explain how to find the height of the prism. Then give the height.

_____

_____

_____

_____

_____

6–1 Name _____ Date _____

Remembering

Use multiplication to write three fractions equivalent to each given fraction.

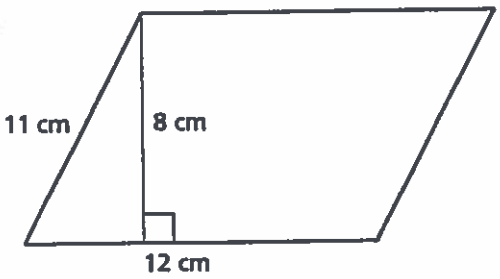
1. $\frac{2}{3}$ _____
2. $\frac{3}{5}$ _____
3. $\frac{5}{8}$ _____
4. $\frac{9}{10}$ _____

Add or subtract.

5. $\frac{2}{3} + \frac{3}{5} =$ _____
6. $\frac{9}{10} + \frac{3}{5} =$ _____
7. $\frac{5}{8} + \frac{9}{10} =$ _____
8. $\frac{5}{8} + \frac{2}{3} =$ _____

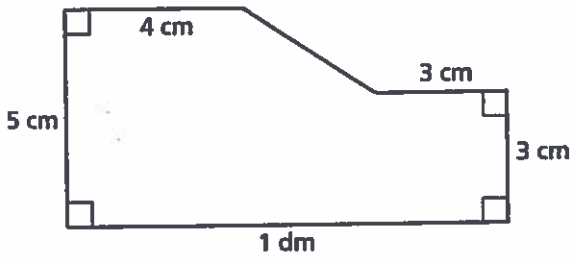
Calculate the area of each figure in square centimeters.

9.



_____

10.



_____

Draw a picture to help you solve each problem.

A right triangle has sides of 6 cm, 8 cm, and 1 dm.

11. What is its perimeter in centimeters? _____

12. What is its area in square centimeters? _____

Solve the Factor Puzzles.

13.

	24	
	42	35

14.

	21
72	63

15.

30	48
	40