

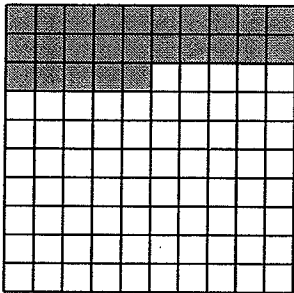
Name _____ # _____

Date _____

Unit 9 Study Guide

1. Gloria made 2 out of 8 shots in the school basketball free-throw contest.
 - a. What fraction of the shots did she make?
 - b. What percent of the shots did she make?
 - c. At this rate, how many shots would she make if she took 100 shots?

2. Peter set a goal of jogging a total of 100 miles over the summer. He filled in the following square to keep track of the miles he ran. During the first two weeks of July, he jogged 25 miles.



- a. What fraction of 100 miles did he jog in 2 weeks?
- b. What percent of 100 miles did he jog?
- c. At this rate, how many weeks would it take him to jog 100 miles?

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3. Fill in the table of equivalent fractions, decimals, and percents.

Fraction	Decimal	Percent
$\frac{1}{4}$		
	0.75	
		60%
	0.10	
		90%
$\frac{6}{6}$		

4. Use a calculator to rename each fraction as a decimal.

a. $\frac{3}{16}$

b. $\frac{6}{24}$

c. $\frac{9}{48}$

5. Use a calculator to rename each fraction as a percent.

a. $\frac{7}{8}$

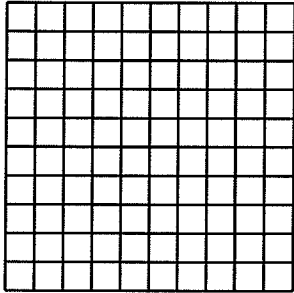
b. $\frac{14}{32}$

c. $\frac{2}{32}$

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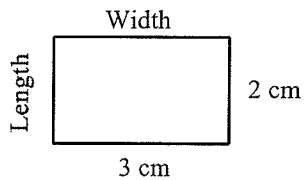
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6. Shade 30% of the given square.



- What fraction of the square did you shade?
- Write this fraction as a decimal.
- What percent of the square is *not* shaded?

7. Find the area and the perimeter of the rectangle. Write number models to show what you did to get the answers.



Perimeter = _____ cm

Number model: _____

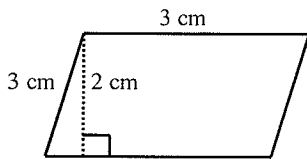
Area = _____ cm^2

Number model: _____

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8. Find the area and the perimeter of the parallelogram. Write number models to show what you did to get the answers.



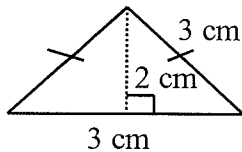
Perimeter = _____ cm

Number model: _____

Area = _____ cm^2

Number model: _____

9. Find the area and the perimeter of the triangle. Write number models to show what you did to get the answers.



Perimeter = _____ cm

Number model: _____

Area = _____ cm^2

Number model: _____

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Make a true sentence by inserting parentheses.

10. $3 * 5 + 39 = 132$

11. $30 - 18 + 8 = 20$

12. $63/9 - 22 = -15$

13. $4 * 2 + 11 + 21 = 136$

14. John bought a jacket that sold for \$220. He had a coupon for a 10% discount.

a. How much money did he save with the discount?

b. How much money did he pay for the jacket?

15. Anita is buying a washing machine. The washing machine she wants costs \$400 at both Nx's Department Store and Al's Department Store. After New Year's Day,

Nx's Department Store put it on sale at a savings of $\frac{1}{10}$ off the regular price.

Al's Department Store offered a 40% discount on all items. At which store should Anita buy the washing machine? Why?