Unit 5 Review Packet

Name _____

Date _____

1. Write three equivalent fractions for each fraction below.

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

   b. $\frac{4}{5}$ = _____

   c. $\frac{2}{7}$ = _____

   d. $\frac{1}{6}$ = _____

2. Fill in the circle next to <u>each</u> equivalent fraction or mixed number. *(Hint: There may be more than one correct answer.)*

a. $2\frac{3}{7}$	b. $2\frac{8}{8}$	c. $4\frac{5}{6}$	d. $6\frac{12}{3}$
○ $3\frac{3}{7}$	○ $3\frac{4}{8}$	○ $\frac{29}{3}$	○ 10
○ $2\frac{5}{7}$	○ $3\frac{1}{2}$	○ $\frac{27}{6}$	○ $\frac{30}{3}$
○ $3\frac{2}{7}$	○ $3\frac{2}{4}$	○ $\frac{29}{6}$	○ $\frac{10}{1}$
○ $3\frac{5}{7}$	○ $3\frac{1}{4}$	○ $\frac{27}{2}$	○ $\frac{34}{3}$

3. Without using a calculator, what is one way to find out what $\frac{2}{5}$ is equal to as a percent?

_____

_____

_____

4. Solve.

   a. $\frac{4}{7} + \frac{1}{7}$ = _____

   b. $\frac{1}{4} + \frac{1}{2}$ = _____

   c. $\frac{3}{4} + \frac{1}{2}$ = _____

   d. $\frac{7}{9} + \frac{1}{3}$ = _____

5. Write <, =, or > to make each sentence true.

a. $\frac{5}{7}$ _____ $\frac{5}{9}$

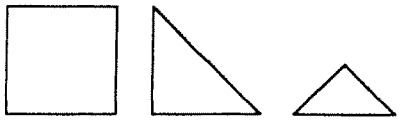
b. $\frac{5}{8}$ _____ $\frac{1}{2}$

c. $\frac{2}{6}$ _____ $\frac{3}{9}$

d. $3\frac{1}{10}$ _____ $\frac{7}{2}$

6. Write each mixed number and improper fraction for each diagram below. In each diagram, the square is worth 1.

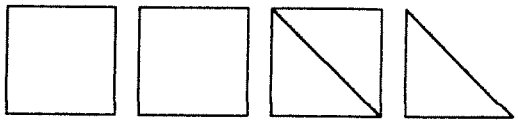
a.



Mixed Number (ex. $3\frac{1}{4}$) _____

Improper Fraction (ex. $\frac{27}{2}$) _____

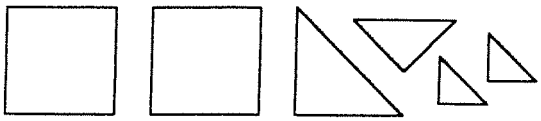
b.



Mixed Number (ex. $3\frac{1}{4}$) _____

Improper Fraction (ex. $\frac{27}{2}$) _____

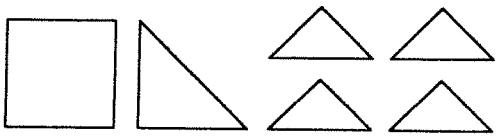
c.



Mixed Number (ex. $3\frac{1}{4}$) _____

Improper Fraction (ex. $\frac{27}{2}$) _____

d.

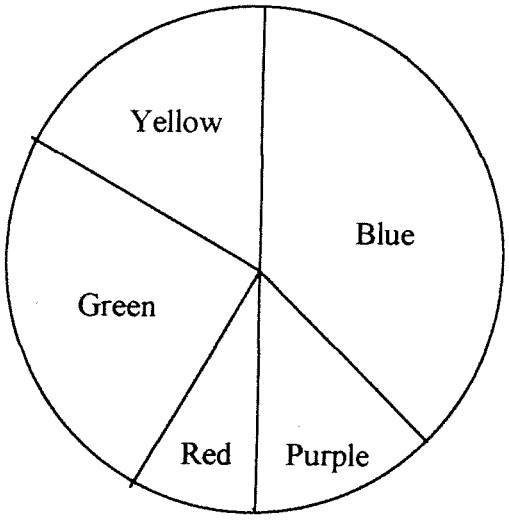


Mixed Number (ex. $3\frac{1}{4}$) _____

Improper Fraction (ex. $\frac{27}{2}$) _____

7. First, estimate the size of each piece of the circle graph at the right. Then use your Percent Circle on the Geometry Template to find the actual percent.

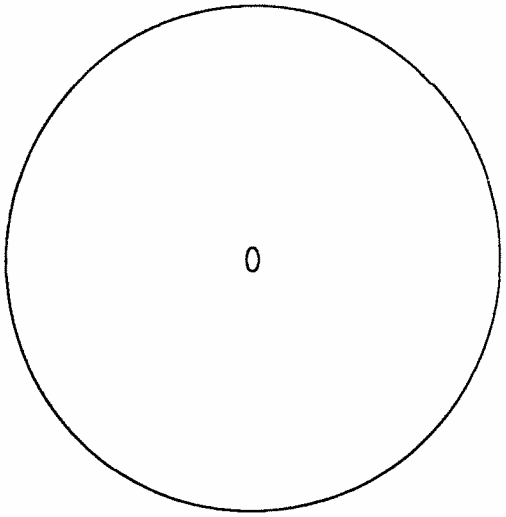
Color	**Estimate**	**Actual**
Blue	_____	_____
Green	_____	_____
Red	_____	_____
Yellow	_____	_____
Purple	_____	_____



8. Make a circle graph for the following information:

A survey reported on the favorite subjects of 5th graders at Westgate Elementary School (pretend). The results of the survey were as follows:

Color	**Percentage**
Math	20%
Science	35%
Social Studies	10%
Reading	15%
Writing	20%

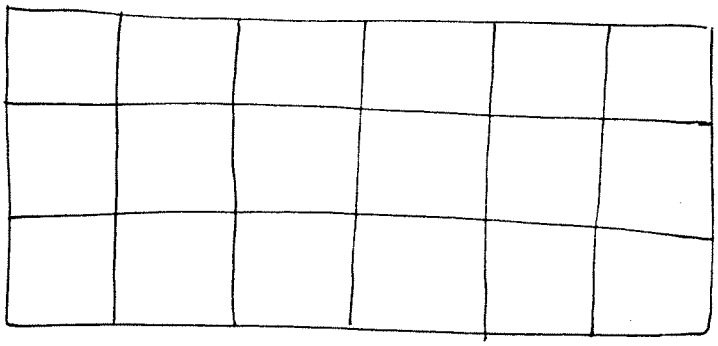


9. If 100 5th graders were interviewed for the survey above, how many of them chose Reading as their favorite subject? _____

10. If 50 5th graders were interviewed for the survey above, how many of them chose Math as their favorite subject? _____

Chapter 5 Study Guide

1.



a. Shade in $\frac{1}{18}$ blue.

b. Shade in $\frac{1}{2}$ green.

c. Shade in $\frac{1}{9}$ red.

2. $\frac{3}{6} = \frac{\square}{2}$

3. $\frac{5}{9} = \frac{\square}{18}$

4. Each △ is worth 1.

a. □ △ = mixed number _____

fraction _____

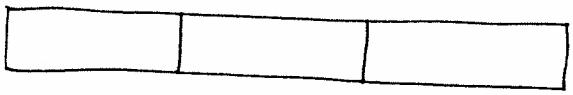
b. □ □ □ / △ △ △ = mixed number _____

fraction _____

5. Which of the fractions below is closest to $\frac{1}{8}$?

$\frac{1}{5}$ $\frac{2}{20}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{2}{3}$

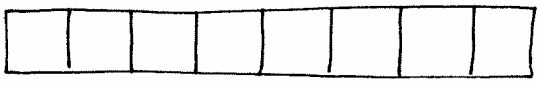
6. Use the fraction sticks below to add the fractions.

a. 

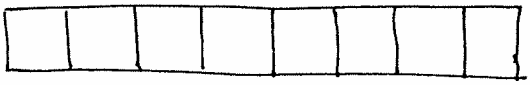
$\frac{1}{3} + \frac{1}{3}$

b. 

$\frac{1}{4} + \frac{1}{2} =$

c. 

$\frac{1}{8} + \frac{1}{2} =$

d. 

$\frac{1}{4} + \frac{3}{8} =$

7. What is the decimal equivalent of all of the following fractions?

a. $\frac{1}{3}$ _____

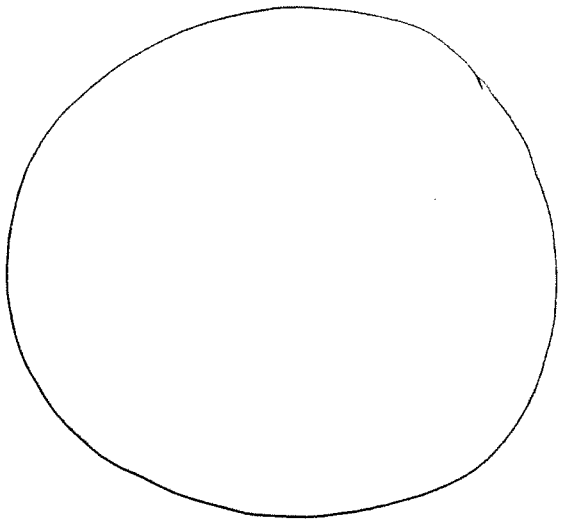
b. $\frac{2}{5}$ _____

c. $\frac{7}{10}$ _____

d. $\frac{1}{2}$ _____

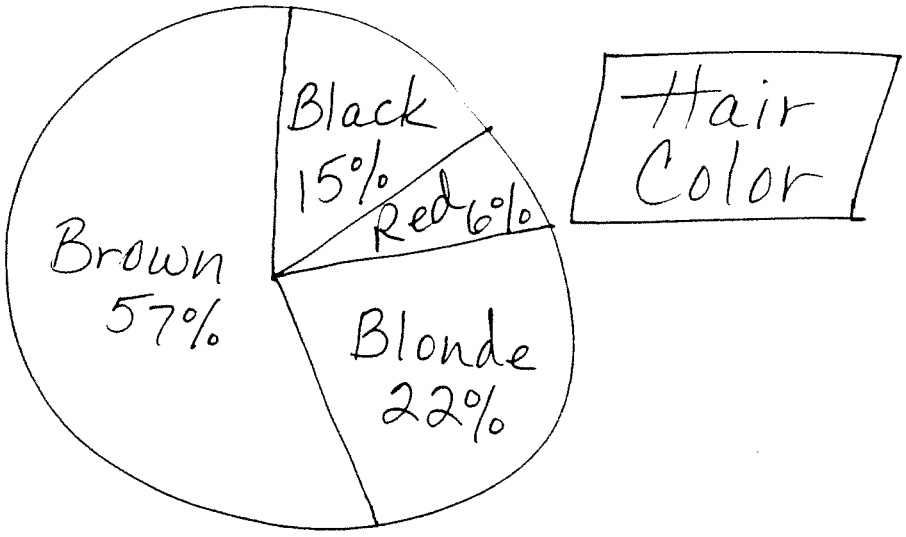
e. $\frac{3}{4}$ _____

8.



a. Shade in $\frac{1}{4}$ of the circle.
b. What <u>percent</u> is shaded?
c. What <u>percent</u> is Not shaded?

9.



a. Which hair color is closest to $\frac{1}{4}$ of the class? _____

b. What <u>fraction</u> of the class has black hair?

10.

Favorite Food

Food	# of people	Percent
Pizza	20	
Spaghetti	15	
Chinese	5	
Mexican	5	
Italian	3	
Ice Cream	2	

a. Fill in the percentages above.

b. Make a circle graph with the data above.

c. If you surveyed 100 people, how many would you expect to choose pizza?

_____

Why? _____

_____

_____

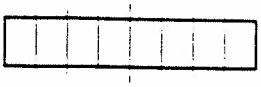
_____

_____

Name Date Time

Study Link 43: Fraction Review

1. a. Shade in $\frac{1}{4}$ of the fraction stick.

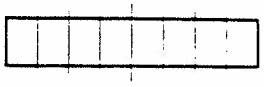


b. Use the fraction stick to find equivalent fractions.

$\frac{1}{4} = \frac{\square}{8} =$ _____

c. $\frac{1}{4} + \frac{1}{4} =$ _____

2. a. Shade in $\frac{3}{8}$ of the fraction stick.

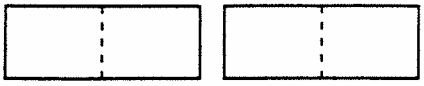


b. Is this more or less than $\frac{1}{2}$? _____

c. Is this more or less than $\frac{1}{4}$? _____

d. $\frac{3}{8} + \frac{1}{8} =$ _____

3. Joe had 2 granola bars. He ate $1\frac{1}{2}$ of them.



a. Shade in the part that he ate.

b. Write the part he ate as a decimal. _____

4. Circle the decimal that is equivalent to the fraction in each row below. Use your calculator to help you.

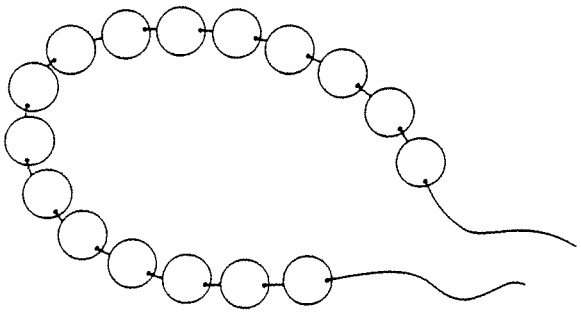
a. $\frac{1}{4} =$	0.5	0.14	0.25	1.4
b. $\frac{1}{10} =$	1.10	0.1	0.010	0.50
c. $\frac{2}{5} =$	0.4	0.25	2.5	0.2

5. Lucy had 16 beads. $\frac{1}{2}$ were red. $\frac{1}{4}$ were blue. The rest were white.

a. Color $\frac{1}{2}$ of the beads red and $\frac{1}{4}$ blue.

b. What fraction of the beads are white? _____

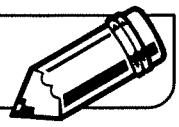
c. Lucy put away all of the white beads.
What fraction of the remaining beads are red? _____



Name Date Time

LESSON 5·9

Finding Equivalent Fractions



1. Fill in the blanks to show how the multiplication rule or the division rule is used to find equivalent fractions.

a. $\frac{6}{8} = \frac{\square}{\square} = \frac{42}{56}$

b. $\frac{72}{81} = \frac{\square}{\square} = \frac{8}{9}$

c. $\frac{56}{63} = \frac{\square}{\square} = \frac{8}{9}$

d. $\frac{3}{4} = \frac{\square}{\square} = \frac{9}{12} = \frac{\square}{\square} = \frac{27}{36} = \frac{\square}{\square} = \frac{54}{72} = \frac{\square}{\square} = \frac{6}{8} = \frac{\square}{\square} = \frac{3}{4}$

2. Fill in the blanks to make equivalent fractions.

a. $\frac{2}{6} = \frac{\square}{42}$

b. $\frac{8}{56} = \frac{1}{\square}$

c. $\frac{\square}{33} = \frac{1}{3}$

d. $\frac{3}{\square} = \frac{9}{27}$

e. $\frac{9}{4} = \frac{\square}{8}$

f. $\frac{\square}{110} = \frac{12}{11}$

3. Circle T or F.

a. $\frac{54}{72} > \frac{3}{4}$ T F

b. $\frac{9}{12} = \frac{3}{4}$ T F

c. $\frac{9}{8} < \frac{8}{9}$ T F

d. $\frac{2}{6} = \frac{200}{600}$ T F

e. $\frac{3}{4} = \frac{1}{4} + \frac{1}{2}$ T F

f. $\frac{10}{4} = \frac{4}{4} + \frac{4}{4} + \frac{1}{2}$ T F

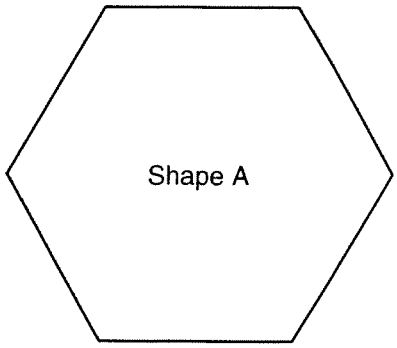
Don't Guess.

You need to know how to figure this out mathematically.

Name Date Time

LESSON 5•2

Pattern Block Fractions



Ex: **1.** Cover Shape A with trapezoid blocks.

a. How many trapezoid blocks does it take to cover Shape A? 2 blocks

b. Write a fraction for this amount. $\frac{2}{2}$

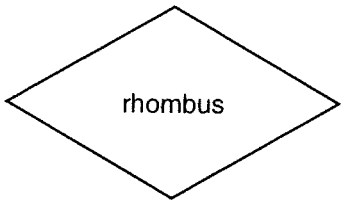
c. What fraction of Shape A is covered by one trapezoid block? $\frac{1}{2}$

2. Cover Shape A with rhombus blocks.

a. How many rhombus blocks does it take to cover Shape A? _____

b. Write a fraction for this amount. _____

c. What fraction of Shape A is covered by one rhombus block? _____



3. Cover Shape A with triangle blocks.

a. How many triangle blocks does it take to cover Shape A? _____

b. Write a fraction for this amount. _____

c. What fraction of Shape A is covered by one triangle block? _____