Name _____

SOL Quiz 6.1 Ratios

The student will describe and compare data, using ratios, and will use appropriate notations, such as $\frac{a}{b}$, a to b, and a:b.

|	
1	A container holds 20 total marbles. There are 13 red marbles and the rest are blue. Write the ratio of blue marbles to red marbles.
2	Mrs Turlington has 9 boys and 12 girls in her class. What is the ratio of girls to total?
3	Beth went to a petting zoo with 23 animals. 9 were goats, 6 were sheep, and the rest were dogs. What is the ratio of dogs to goats?
4	A bag contains red chips and black chips. The ratio of red chips to black hips in the bag is 4 to 5. Which of the following statements could be true? A) There are exactly 9 red chips and 3 black chips. B) There are exactly 24 red chips and 30 black chips. C) There are exactly 12 red chips and 10 black chips. D) There are exactly 30 red chops and 24 black chips.
5	A container holds 20 total marbles. There are 13 red marbles and the rest are blue. Write the ratio of blue to red marbles all three ways. _____ to _____ _____ : _____
6	Color the circles and squares below to show the following: The ratio of squares to circles is 18 to 24
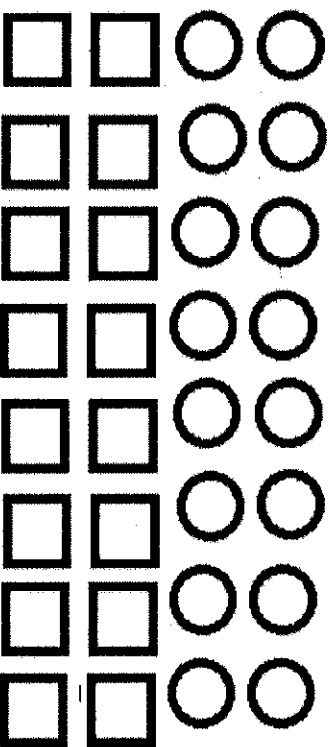
Name _____   **SOL Quiz 6.2ab Fractions, Decimals, Percents**

The student will
  c) demonstrate equivalent relationships among fractions, decimals, and percents; and
  d) compare and order fractions, decimals, and percents.
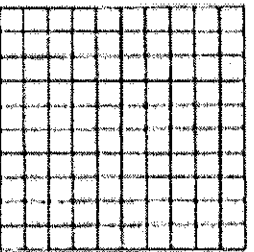
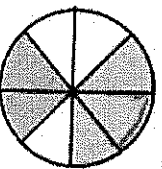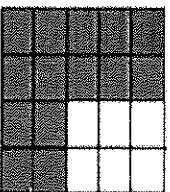| 1	Which ratio is equivalent to 1.7?
	A. $\dfrac{7}{10}$ B. $\dfrac{17}{100}$ C. $1\dfrac{7}{100}$ D. $\dfrac{17}{10}$
2	What percent of the triangles is shaded?
	A. 3% C. 20%
	B. 15% D. 40%
3	1. Model 35% on the grid provided. Write as a decimal and as a fraction in simplest form.
	F: _____ D: _____
4	What percent represents that portion of the circle that is shaded?
5	What decimal represents the shaded part of the figure?
6	Which ratio correctly represents 7%?
	A) 0.7 B) $\dfrac{7}{100}$ C) 7.0 D) 0.007

Name _____

SOL Quiz 6.2cd Fractions, Decimals, Percents

NO CALCULATOR

The student will
a) investigate and describe fractions, decimals, and percents as ratios;
b) identify a given fraction, decimal, or percent from a representation;

1	Circle all of the numbers below that are equivalent to $\frac{1}{20}$.		
	5%	$\frac{5}{100}$	0.020
	0.5%	0.05	$\frac{2}{40}$

2	Select all of the numbers that lie between 0.007 and 0.13 and plot them on the number line.
	Least ←——|——————|————→ Greatest
	0.007 **0.13**

0.120	0.04	0.0013
0.7	0.031	0.02

3	List the numbers in order from least to greatest.
	Least ——————▶ Greatest
		0.57%	$\frac{1}{4}$	0.22	
	▢ ▢ ▢

4	Which of the following statements are true?
	A. .0134 = 13.4% C. 64% = $\frac{100}{64}$
	B. 0.03 = $\frac{1}{3}$ D. $\frac{9}{10}$ = 0.9

5	Which of the following numbers is between $\frac{3}{25}$ and $\frac{1}{4}$ on a number line?
	A. $\frac{4}{5}$ B. $\frac{1}{3}$ C. $\frac{7}{8}$ D. $\frac{4}{20}$

6	Which of the following statements is not true?
	A .159 = 15.9% B. 0.33 = $\frac{1}{3}$ C. 45% = $\frac{9}{20}$ D. $\frac{7}{100}$ = 0.7

Name _____   Date _____

Multiple Circle Graphs

Directions: Use the circle graphs to answer the questions.

Use this graph for questions 1-3.

Favorite Desserts

- ▨ Ice Cream
- ▥ Cookies
- ▧ Brownies
- ⊟ Fruit
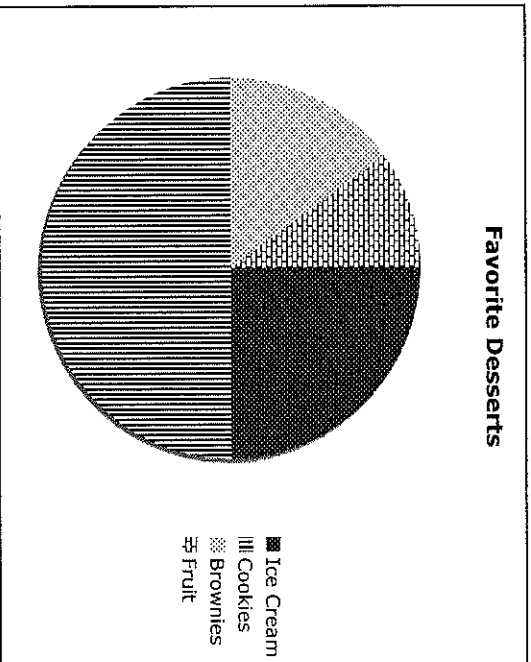
1. What percent of people chose ice cream as their favorite dessert?

2. Which was liked more, brownies or fruit as a dessert in this set of data?

3. What percent of people chose cookies as their favorite dessert?

Use this graph for questions 4-6. This is from a vote of 100 6ᵗʰ grade students.

Votes for Class President
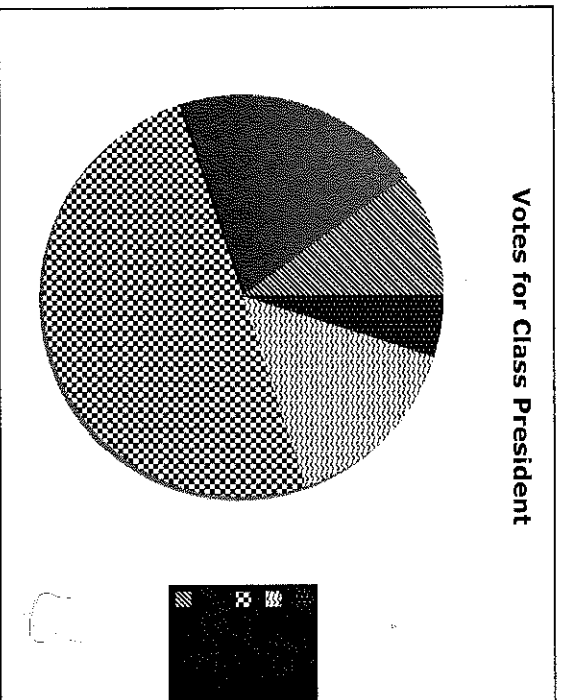
4. How many votes did Shemya receive?

5. How many votes did Eddi receive?

6. If Mike got 30 more votes, would he win the election? Explain your answer.

Name _____

The student will
   a) identify and represent integers;
   b) order and compare integers; and
   c) identify and describe absolute value of integers.

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1   Circle the numbers that are integers.

-12	$\frac{10}{2}$	13.2	25.0	5^3	$\frac{1}{4}$

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2   Circle each number that is between 17 and -5

15	-6	-10
19	-1	4

---

3   Circle each number that has an absolute value of 13.

$\frac{13}{1}$	-13	6
13	$\frac{1}{13}$	0

---

4   Circle each number that is **NOT** an integer.

$\frac{1}{8}$	$\frac{15}{3}$	18
-39	$\frac{8}{32}$	0

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5   Based on the information given, is the following true or false? _____

○ represents 1
● represents ˉ1

●● > ○○
●●   ○○

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6   Put the following in descending order

18, -7, 0, -3, 6

_____