

Homework #12

Due Friday, Dec. 13

Name _____

Buckley or Gietzen

Percent means "out of _____." The (%) symbol is a quick way to write a _____ with a denominator of _____. As an example, instead of saying "it rained 14 days out of every 100," we say "it rained _____% of the time."

Example: $\frac{18}{25} = \frac{72}{100} = 0._ _ = _ _ \%$

1. Fill in the missing fraction, decimal or percent below:

Fraction (Simplest Form)	Fraction (with 10, 100, 1000 as denominator)	Decimal	Percent
$\frac{9}{25}$			
		0.47	
			3%
	$\frac{7}{10}$		
$\frac{1}{5}$			
		0.22	
			18%
$\frac{24}{30}$			
		1.5	

2. In a recent basketball game, Anna *attempted* **20** free throws. She *made* **16** of them.

a. What is her free-throw average as a **fraction**? _____
(simplest form)

b. What is her free-throw average as a **decimal**? _____

c. What is her free-throw average as a **percent**? _____

3. Order these numbers from **least** to **greatest**.

$\frac{21}{25}$ 0.87 0.88 $\frac{4}{5}$ = _____

4. You want to buy a new phone. You are deciding between two models. Model X weighs **0.44 pounds** and Model Z weighs $\frac{2}{5}$ **pounds**. You think the model that weighs **less** will be better. Which model should you buy? Why? (*Show work to prove why.*)

5. What is the opposite of -9.9? _____

6. What is the opposite of 14? _____

7. What is the absolute value of 5? _____

8. What is the absolute value of -2.6? _____

9. If asked to put the following numbers in order from least to greatest, would you be more likely to change them all to fractions or all to decimals? Why?
(Circle one)

$$\frac{5}{10}$$

$$0.3$$

$$\frac{7}{20}$$

$$0.4$$

$$\frac{3}{4}$$

Put them in order here: _____
(least to greatest)

10. Change the fractions below into **decimals**.

a. $\frac{8}{10} =$ _____

c. $\frac{12}{25} =$ _____

b. $\frac{43}{100} =$ _____

d. $\frac{2}{5} =$ _____

11. Change the following decimals into **fractions**. They DO NOT have to be written in simplest form.

a. $0.44 =$ _____

c. $0.007 =$ _____

b. $0.3 =$ _____

d. $1.06 =$ _____

12. On one very cold day in Lansing, the low temperature was -9°F . The high temperature was -1°F .

a. Write an **inequality** (using either $>$ or $<$) to compare the two temperatures.

b. The next day, the high temperature was -3°F . Write an **inequality** to compare the two **high** temperatures.

13. The ratio of **Fords** to **total cars** in the parking lot is 9 to 25.

a. What **fraction** of the cars are Ford? _____ What **percent** is this? _____

b. What **fraction** of cars are **not** Ford? _____ What **percent** is this? _____

14. Arrange these decimals from least to greatest:

-7.00 -0.47 -0.070 - 0.7 -0.047

15. Arrange these decimals from least to greatest:

7.00 0.47 0.070 0.7 0.047
