Name: _____

Date: 5/14/2013

Period: _____

Pre Algebra: Final Review Worksheet
- Basic operations with fractions and decimals
Convert between decimals, fractions, percents -

A. Convert decimals to fractions (simplified) and fractions to decimals.

(1) 0.2

(2) 3.06 (enter as **mixed #**)

(3) 0.125

(4) $\frac{11}{20}$
(enter with **2 decimal place values**)

(5) $\frac{5}{8}$
(enter with **3 decimal place values**)

B. Add, subtract, multiply or divide these fractions as indicated. (enter as **simplified mixed #s**)

(6) $\frac{5}{6}+\frac{3}{8}$

(7) $1\frac{1}{2}-\frac{2}{3}$

(8) $\frac{1}{4}\cdot\frac{18}{21}$

(9) $\frac{8}{11}\div\frac{2}{9}$

(10) $5\frac{4}{7}\div\frac{3}{14}$

(11) $\frac{3}{8}\left(2\frac{3}{4}\right)-\frac{1}{2}$

C. Round the following numbers to the indicated position. (Remember, when you round you must look at the digit immediately TO THE RIGHT of the indicated position.)

(12) 0.7649 to the **tenth** _____

(13) -9.0965 to the **hundredth** _____

(14) 365,987.092 to the **ones** _____

(15) 5.999999 to the **thousandth** _____

D. Compare these sets of numbers using <, >, or =. (Multiple Choice)

(16) $\frac{1}{4}$ _____ 0.3 (17) 0.77_____ $\frac{7}{9}$

A. < (less than) **B. > (greater than)** **C. = (equal)**

E. Add, subtract, multiply, or divide these numbers as indicated. (Pay close attention to negative signs). **Round to the nearest hundredth, if necessary**. Enter with 2 decimal place values. NO CALCULATORS

(18) 8.03 – 2.5 (19) 3.02 ÷ 0.8 (20) -0.96 · 0.04

(21) -1.6 – 0.59 (22) 10.8 – 7.912 (23) 31.597 ÷ 1.9

F. Fill in the table by converting to and from fractions, decimals and percents. (Round to nearest whole percent).

	FRACTIONS (enter as simplified fraction)	DECIMALS (enter with 2 decmal place values)	PERCENTS (round to whole percents)
a.	4/5		
b.			90%
c.		0.04	
d.			8.5%
e.		0.875	

G. Express each ratio as a fraction in reduced form. (enter as a fraction)

(34) 60: 40 (35) 25 out of 40

H. Solve each proportion. (The *cross products* are equal) Calculators ok.

Example: $\frac{33}{75} = \frac{x}{100}$: $33 \cdot 100 = 75x$: $x = 44$

(36) $\frac{40}{24} = \frac{75}{x}$ (37) $\frac{25}{6} = \frac{80}{x}$

I. Express these rates as unit rates. *(A unit rate compares a number to one.)* Express these ratios in fraction form and then reduce them until the denominator is one. Calculators ok

Example: 200 miles in 4 hours: $\frac{200}{4}$ miles per hour: 50 mph

(38) 456 heartbeats in 3 minutes (39) 449.5 miles per 14.5 gallons

_____ heartbeats in 1 minute _____ miles per 1 gallon

J. Solve these percent problems using proportions or a strategy of your choosing.

Example: 95 is what percent of 200?
Notes will go here

(40) What percent is 6 of 24?

(41) 150 is 250% of what number?

(42) 45 is 90% of what number?

(43) What is 120% of 20?