

Homework

Directions: Compare the following fractions using $<$, $>$, or $=$.

<p>1) $\frac{66}{7} < \frac{10}{11}$ ⁷⁰</p> <p>cross product</p> <p>cross product</p>	<p>2) $\frac{1}{5} > 0.15$</p> <p>¹⁰⁰ $\frac{1}{5} > \frac{15}{100}$ ⁷⁵</p> <p>cross product</p> <p>cross product</p>
<p>3) $2.5 = 2\frac{1}{2}$</p> <p>$2\frac{5}{10}$</p> <p>$2\frac{1}{2}$ $2\frac{1}{2}$</p>	<p>4) $\frac{24}{15} < \frac{5}{8}$ ⁷⁵</p> <p>cross product</p> <p>cross product</p>

Directions: Order the following values from least to greatest.

5) 0.294, 0.87, 0.209, $0.\overline{22}$

0.870
0.209
0.222

0.209, $0.\overline{22}$, 0.294, 0.870

6) Given the expression: $6x^2 - 9x + 5$, state the

number of terms: 3

coefficient to the x term: -9

constant: 5

Name: KEY

Math 7H - Date: Sept 28

Glue on page 22

Directions: Convert each fraction to a decimal by using long division. Then check your answer with the calculator.

13) $\frac{2}{5}$

$$\begin{array}{r} 0.4 \checkmark \\ 5 \overline{) 2.000} \\ \underline{- 20} \\ 0 \end{array}$$

calc
 $\boxed{2} \boxed{\div} \boxed{5}$
 0.4 ✓

0.4

14) $-\frac{8}{25}$

$$\begin{array}{r} -0.32 \checkmark \\ 25 \overline{) 8.100} \\ \underline{- 75} \downarrow \\ 50 \\ \underline{- 50} \\ 0 \end{array}$$

calc
 $\boxed{-8} \boxed{\div} \boxed{25}$
 -0.32 ✓

-0.32

15) $3\frac{1}{4} = \frac{13}{4}$

$$\begin{array}{r} 3.25 \checkmark \\ 4 \overline{) 13.00} \\ \underline{- 12} \downarrow \\ \text{or } 10 \downarrow \\ \underline{- 8} \downarrow \\ 20 \\ \underline{- 20} \\ 0 \end{array}$$

calc
 $\boxed{13} \boxed{\div} \boxed{4}$
 3.25 ✓

3.25

Directions: Fill in the missing part of the table. Use the $\frac{A^b}{c}$ key to simplify fractions.

Decimal	Decimal in Words	Fraction
7) 0.28	28 hundredths	$\frac{28}{100} = \frac{7}{25}$
8) 3.2	3 and 2 tenths	$3\frac{2}{10} = 3\frac{1}{5}$
9) 0.62	62 hundredths	$\frac{62}{100} = \frac{31}{50}$

Directions: For questions 10 – 12, evaluate each algebraic expression where $a = 4$, $b = -5$, and $c = -2$.

10) $3a - 5b$

*don't forget to substitute

$$3(4) - 5(-5)$$

$$12 + 25$$

$$\textcircled{37}$$

11) $a(b + c)$

$$4(-5 + (-2))$$

$$4(-5 - 2)$$

$$4(-7)$$

$$\textcircled{-28}$$

12) $c - 9a + b$

$$-2 - 9(4) + (-5)$$

$$-2 - 36 - 5$$

$$-38 - 5$$

$$\textcircled{-43}$$