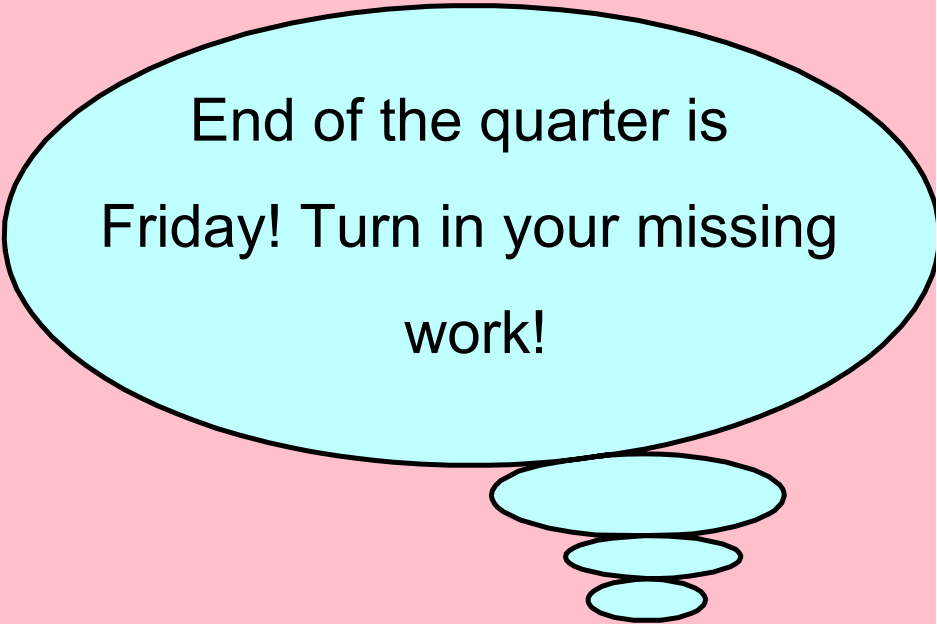


Wednesday, October 15, 2014

Please turn in your homework from yesterday.

Label a half sheet of paper from 1 through 10 and put your name at the top.



End of the quarter is
Friday! Turn in your missing
work!

Minute

1. $0.8 - 0.5 =$
2. Which is the greatest number? 0.55 0.50 0.505
3. Which has the least value? 0.092 0.029 0.043
4. If $a = 9$, then $a^2 = ?$
5. If $3x = 27$, then $x = ?$
6. Three feet equal _____ inches.
7. $3 + 9 \cdot 2 =$
8. Order from least to greatest:
0.08, 8.0, 0.8
9. A field goal is worth three points. The Bears have kicked four field goals. How many points is this altogether?
10. $3 \times 2 \times 4 =$



1. 0.3
2. 0.55
3. 0.029
4. 81
5. 9
6. 36
7. 21
8. 0.08, 0.8, 8.0
9. 12
10. 24

Minute Answers - TRADE WITH A
PARTNER



Today's Objective:

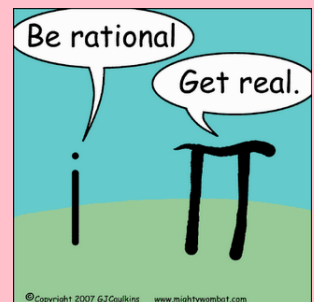
Students will be able to solve equations with rational coefficients.

Change \div to \times

$$\frac{2}{9} \div \frac{10}{7} = \frac{2}{9} \times \frac{7}{10}$$

Reciprocal

$$\begin{array}{r} 0.31 \\ 8.4 \overline{) 260.4} \\ \underline{-252} \\ 84 \\ \underline{-84} \\ 0 \end{array}$$



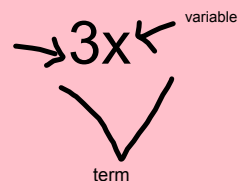
Some definitions we need to know...

- rational number

any number that can be written as a fraction

- coefficient

the numerical factor of a term that contains a coefficient variable



Example:

$$\frac{0.9}{0.4} = \frac{0.4m}{0.4}$$

$$2.25 = m$$

$$\begin{array}{r} 2.25 \\ 0.4 \overline{) 0.9.00} \\ \underline{-8} \downarrow \\ 10 \downarrow \\ \underline{8} \downarrow \\ 20 \downarrow \\ \underline{20} \\ 0 \end{array}$$

$$-16 = 0.2b$$

Now you try....

$$\begin{array}{r} -80 \\ 0.2 \overline{) -16.0} \\ \underline{-16} \\ 00 \end{array}$$

$$b = -80$$

$$\begin{array}{r} 0.5y = 19.5 \\ \hline 0.5 \quad 0.5 \end{array}$$

$$y = 39$$

$$\begin{array}{r} 39 \\ 0.5 \overline{) 19.5} \\ \underline{-15} \\ 45 \\ \underline{-45} \\ 0 \end{array}$$

Fraction Coefficients

If the coefficient in a multiplication equation is a fraction, multiply each side by the reciprocal of the coefficient.

Example:

$$\frac{3}{2} \cdot \frac{2}{3} t = 9 \cdot \frac{3}{2}$$

What is the coefficient? $\frac{2}{3}$

$$t = \frac{9 \cdot 3}{1 \cdot 2} = \frac{27}{2}$$

rec = $\frac{3}{2}$

den 13 whole #

$$\begin{array}{r} 2 \overline{) 27} \\ \underline{-6} \\ 21 \end{array}$$

R/num

$$t = 13 \frac{1}{2}$$

Example:

rec $\frac{8}{3}$

$$\frac{8}{3} \cdot \frac{3}{8} n = -\frac{1}{4} \cdot \frac{8}{3}$$

$$n = -\frac{1}{4} \cdot \frac{8}{3} = -\frac{8}{12} \div \frac{4}{4} = \left(-\frac{2}{3} = n\right)$$

rec $\frac{3}{2}$

$$\frac{3}{2} \cdot \frac{2}{3} z = 4\frac{1}{4} \cdot \frac{3}{2}$$

$$z = 4\frac{1}{4} \cdot \frac{3}{2}$$

$$= \frac{17}{4} \cdot \frac{3}{2} = \frac{51}{8}$$

$$\begin{array}{r} 6 \\ 8 \overline{) 51} \\ \underline{-48} \\ 3 \end{array}$$

$$z = 6\frac{3}{8}$$

Now you try....

$$rec = \frac{4}{5}$$

$$\frac{5}{4} \times \frac{2}{5} = \frac{4}{5} \times \frac{5}{4}$$

$$\frac{5 \times 2}{4 \times 5} = \frac{10}{20} = c$$

$$\frac{4}{2} = c$$

$$\frac{6}{5} \times \frac{5}{6} b = 1\frac{7}{8} \cdot \frac{6}{5}$$

$$b = 2\frac{1}{4} \frac{15}{8} \cdot \frac{6}{5}$$

$$\frac{90}{40} = 2\frac{1}{4}$$

Homework: Lesson 3 Skills Practice
Worksheet odds

