Warm Up 8/30/18

Simplify:

1. $|-4 + -5| + |30 - 22|$

$|-9| + |8|$

$9 + 8 = \boxed{17}$

2. $-4(-3)(2)$

$12(2) = \boxed{24}$

3. **Solve:** $10x \cancel{- 4} = -34$

$\cancel{+4} \quad +4$

$\frac{\cancel{10}x}{\cancel{10}} = \frac{-30}{10}$

$\boxed{x = -3}$

Dividing Decimals

1. Set up division problem

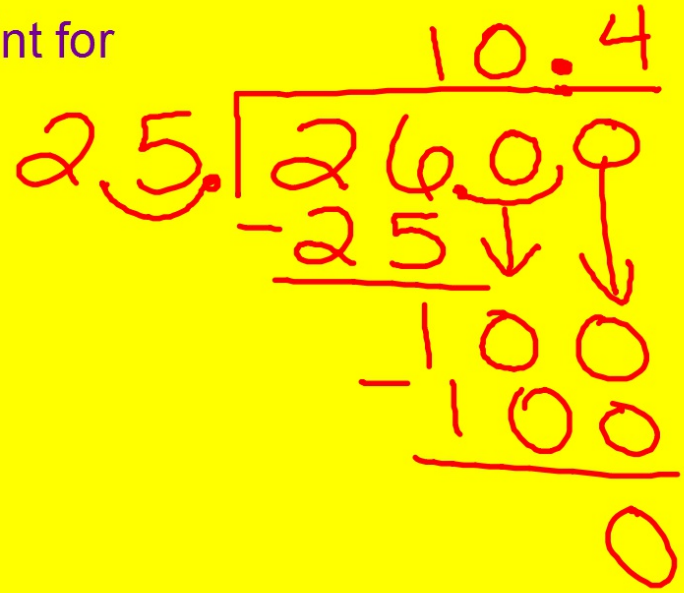
2. Move decimal points until the divisor is a whole number

3. Place decimal point for solution

4. Divide

$$26 \div 2.5$$

Dividend Divisor



$$\begin{array}{r} 4.59 \\ 2\overline{)9.18} \\ -8 \\ \hline 11 \\ -10 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 62 \\ \times\ 3 \\ \hline 186 \end{array}$$

$$\begin{array}{r} 002.5 \\ 62\overline{)1550} \\ -0 \\ \hline 15 \\ -0 \\ \hline 155 \\ -124 \\ \hline 310 \end{array}$$

$$\begin{array}{r} 62 \\ \times\ 4 \\ \hline 248 \end{array} \qquad \begin{array}{r} {}^{1}62 \\ \times\ 5 \\ \hline 310 \end{array}$$

25.728 ÷ 5.22

60.467 ÷ 3.03

108.94 ÷ 8.5

$$\begin{array}{r} 12.816 \\ 8.5\overline{)108.940} \\ -85 \\ \hline 18 \\ -170 \\ \hline 694 \\ -680 \\ \hline 140 \\ -85 \\ \hline 550 \\ 510 \\ \hline 40 \end{array}$$

$$\begin{array}{r} {}^{3}85 \\ \times\ 6 \\ \hline 510 \end{array}$$

$$\begin{array}{r} {}^{1}85 \\ \times\ 2 \\ \hline 170 \end{array} \qquad \begin{array}{r} {}^{1}85 \\ \times\ 3 \\ \hline 255 \end{array}$$

$$\begin{array}{r} {}^{2}85 \\ \times\ 5 \\ \hline 425 \end{array}$$

$$\begin{array}{r} {}^{3}85 \\ \times\ 7 \\ \hline 595 \end{array} \qquad \begin{array}{r} {}^{4}85 \\ \times\ 8 \\ \hline 680 \end{array}$$

Converting Fraction → Decimal

Divide the numerator by the denominator

OR

Create equivalent fraction with 10, 100 or 1000 as denominator

$\frac{2}{3} = 0.\overline{6}$

$\frac{1}{3} = 0.\overline{3}$

$\frac{3}{6} = 0.5$

$\frac{9}{10}$ 0.9

$\frac{1}{4}$ 0.25

$\frac{10}{12} = \frac{5}{6}$

$$
\begin{array}{r}
0.8\overline{3} \\
6\overline{)5.000} \\
-\ 48 \\
\hline
20 \\
18 \\
\hline
20
\end{array}
$$

Converting Decimal → Fraction

Put decimal as numerator over 10, 100, 1000 and simplify

0.875

$$\frac{875}{1000}\begin{matrix}\div 5\\ \div 5\end{matrix} \quad \frac{175}{200} = \frac{35}{40} = \boxed{\frac{7}{8}}$$

0.333

$$\frac{333}{1000} \qquad \frac{6}{10} = \boxed{\frac{3}{5}}$$

0.667

$$\frac{667}{1000} \qquad \frac{2}{10} = \boxed{\frac{1}{5}}$$

0.6

0.2

Converting to a Percent

From <u>Fraction:</u> Put fraction over 100
or convert to decimal

From <u>Decimal</u>: Swoop the decimal point
2 places to the right

1. $0.4 =$

2. $\frac{1}{3} =$

3. $0.667 =$

4. $\frac{5}{8} =$

5. $0.75 =$

6. $0.25 =$

7. $0.375 =$

8. $0.5 =$

Converting from a Percent

To <u>Fraction:</u> Put % over 100 or convert to a decimal

To <u>Decimal</u>: Swoop the decimal point 2 places to the left

42%

0.6%

15.5%

20%

33 1/3%

4.25%