

MARCH 2, 2015 ^{5TH} _{6TH} STARTER

1.

$$\begin{array}{r} 44 \\ 7 \overline{) 308} \\ \underline{-28} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

2.

$$\begin{array}{r} 19 \\ 8 \overline{) 152} \\ \underline{-8} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

3.

$$\begin{array}{r} 25 \\ 12 \overline{) 300} \\ \underline{-24} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

4.

$$\begin{array}{r} 98 \frac{3}{4} \\ 4 \overline{) 395} \\ \underline{-36} \\ 35 \\ \underline{-32} \\ 3 \end{array}$$

3/2 Converting between Fractions, Decimals, and Percents

Remember these?

Fractions to Decimals

bottom) *top*

$$\frac{3}{4} = 0.75$$

$$\begin{array}{r} .75 \\ 4 \overline{) 3.00} \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

$$\frac{3}{8} = 0.375$$

$$\begin{array}{r} .375 \\ 8 \overline{) 3.000} \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$4\frac{3}{5} = 4.6$$

$$\begin{array}{r} .6 \\ 5 \overline{) 3.0} \\ \underline{30} \\ 0 \end{array}$$

Decimals to Fractions

$$\begin{aligned} 0.36 &= \frac{36}{100} \div 2 \\ &= \frac{18}{50} \div 2 \\ &= \frac{9}{25} \end{aligned}$$

$$\begin{aligned} 0.45 &= \frac{45}{100} \div 5 \\ &= \frac{9}{20} \end{aligned}$$

$$\begin{aligned} 2.48 &= 2 \frac{48}{100} \div 4 \\ &= 2 \frac{12}{25} \end{aligned}$$

SAY it
WRITE it
SIMPLIFY it

What does percent mean?

out of 100

$\frac{\#}{100}$ <p>then reduce</p>

Percent \longrightarrow **fraction**

$$78\% = \frac{78 \div 2}{100 \div 2}$$
$$= \frac{39}{50}$$

$$24\% = \frac{24 \div 4}{100 \div 4}$$
$$= \frac{6}{25}$$

$$120\% = \frac{120 \div 20}{100 \div 20}$$
$$= \frac{6}{5}$$
$$= 1\frac{1}{5}$$

$$8\% = \frac{8 \div 4}{100 \div 4}$$
$$= \frac{2}{25}$$

Percents \longrightarrow Decimals

$$\underbrace{45\%}_{\text{not necessarily to show}} = \frac{45}{100} = 0.45$$

$$\underbrace{105\%}_{\text{not necessarily to show}} = 1.05$$

$$\underbrace{0.8\%}_{\text{not necessarily to show}} = 0.008$$

$$\underbrace{37.5\%}_{\text{not necessarily to show}} = 0.375$$

Move decimal
two places
to the **LEFT**

Decimals \longrightarrow Percents

$$\left(\frac{42}{100}\right) 0.42 = 42\%$$

$$0.08 = 8\%$$

$$1.23 = 123\%$$

$$5.1 = 510\%$$

Move the decimal
two places
to the **RIGHT**

FRACTION \longrightarrow PERCENT

$$\frac{1}{4} \cdot 25 = \frac{25}{100} = 25\%$$

$$\frac{2}{5} \cdot 20 = \frac{40}{100} = 40\%$$

DIVIDE *bottom*) *top*
THEN MOVE DECIMAL
TWO TO THE RIGHT

$$1\frac{3}{8} = 1.375 = 137.5\%$$

$$\begin{array}{r} .375 \\ 8 \overline{) 3.000} \\ \underline{.24} \\ .56 \\ \underline{.48} \\ .80 \\ \underline{.80} \\ 0 \end{array}$$

Fill in the chart. Show your work below.

Fraction	Percent	Decimal
	36%	
$4\frac{5}{8}$		
		3.28

HOMEWORK

Melon WS 1

DUE Tuesday