

Honors Warm Up  
complete the fraction worksheet  
on the stool.

\* Lowest Terms Please

Improper fractions, NOT mixed numbers



(21)

$$\textcircled{14} \frac{21}{8} \times \frac{4}{9} = \frac{1}{6}$$

$$\frac{5}{\cancel{4}} \times \frac{\cancel{4}^1}{9} = \frac{20}{36} = \frac{5}{9}$$



Every number has a  
+ or - sign

$$7 = (+7)$$

$$-7 = (-7)$$

$$4t = (+4)(+t)$$

multiplying

$$-3x = (-3)(+x)$$

$$4 - 10(x) = -6 \longrightarrow (+4) + (-10)(-x) = (-6)$$



If you have 2 negatives, they  
pair off & cancel

$$(+4)(+7) = +28$$

$$7 + +4 = 11$$

One of each, they don't cancel

$$(+4)(-7) = -28$$

$$7 + (-4) = 3$$



## 2 step Algebra

goal → 1) add 0  
2) multiply by 1

Rule → Whatever you do to one side of an equation, you do to the other.

$$\begin{array}{r} 44 - 22x = 66 \\ + 22x \quad + 22x \\ \hline 44 + 0 = 66 + 22x \\ - 66 \quad - 66 \end{array} \quad \rightarrow \quad \begin{array}{r} -22 = 22x \\ \hline -1 = (1)x \\ \hline -1 = x \end{array}$$



$$\begin{array}{r} 75x + 3 = 153 \\ - 3 \quad - 3 \\ \hline 75x + 0 = 150 \end{array}$$

$$\begin{array}{r} 75x = 150 \\ \hline 75 \quad 75 \end{array}$$

~~75~~  $x(1) = 2$   
 $x = 2$



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$$(25 + 60a) = 728$$

~~13~~ 13

$$13 \frac{1}{13} (25 + 60a) = 728(13)$$

$$\begin{array}{r} 25 + 60a = 9464 \\ -25 \phantom{+ 60a} \\ \hline \end{array}$$

$$\begin{array}{r} 60a = 9439 \\ \hline 60 \end{array}$$

$$a = 157.31\bar{6}$$

