

November 8, 2011

Warm-Up:

$$\begin{array}{r} \cancel{-11k} = \frac{495}{\cancel{-11}} \\ \hline k = -45 \end{array}$$

$$\begin{array}{r} \cancel{12} \cdot \frac{x}{\cancel{12}} = -15 \cdot \cancel{12} \\ \hline x = -180 \end{array}$$

$$\begin{array}{r} \frac{-946}{\cancel{-22}} = \frac{-22n}{\cancel{-22}} \\ \hline 43 = n \end{array}$$

$$\frac{100}{100} \cdot \frac{100}{100} \cdot \frac{100}{100}$$

Get out your homework...

Buff Worksheet # 4

$$8) \frac{-5x}{-5} = \frac{-65}{-5}$$
$$x = 13$$

$$21) \frac{-119}{-17} = \frac{-17x}{-17}$$

$$\begin{array}{r} 7 \\ 17 \overline{) 119} \\ \underline{119} \\ 0 \end{array}$$

$$7 = x$$

$$18) \frac{70}{-14} = \frac{-14n}{-14}$$
$$-5 = n$$

$$28) \frac{-13v}{-13} = \frac{-117}{-13}$$

$$\begin{array}{r} 9 \\ 13 \overline{) 117} \\ \underline{117} \\ 0 \end{array}$$

$$v = 9$$

11/8 - Solving One-Step Equations with Decimals/Fractions

Remember:

1. find the center
2. find the variable
3. get the variable by itself
4. make the variable positive

$$n + (-5) = 7$$

+5 +5

What is the opposite operation for each:

$n + 5$	-5	$\frac{2}{7} \cdot \frac{1}{2} n = 5 \cdot \frac{2}{7}$
$n - 5$	$+5$	
$n + (-5)$	$+5$	
$n + (+5)$	-5	$\frac{3}{2} \cdot \frac{2}{3} n = 5 \cdot \frac{3}{2}$
$5n$	$\frac{1}{5}$	
$\frac{n}{5}$	$\cdot 5$	

$$-1\frac{1}{4} n = 5$$

$$-\frac{4}{5} \cdot -\frac{5}{4} n = 5 \cdot -\frac{4}{5}$$

Try these...

$$\frac{-2.7}{.3} = \frac{0.3k}{0.3}$$

$$.3 \overline{) 2.7}$$

$$\boxed{-9 = k}$$

$$\frac{-0.5n}{-.5} = \frac{-4}{-.5}$$

$$.5 \overline{) 4.0} \quad \boxed{n = 8}$$

$$\frac{x}{-1.1} = 5.34 \quad (-1.1)$$
$$x = -5.874$$

$$\begin{array}{r} 5.34 \\ 1.1 \\ \hline 5.874 \end{array}$$

$$(3.6) - 4.2 = \frac{r}{3.6} \quad (3.6)$$
$$-15.12 = r$$

$$\begin{array}{r} 3.6 \\ 4.2 \\ \hline 72 \\ 144 \\ \hline 1512 \end{array}$$

Now with fractions...

$$\frac{-20}{6} = \frac{6k}{6}$$

$$-3\frac{2}{6} = k$$

$$\boxed{-3\frac{1}{3} = k}$$

$$6 \overline{) 20} \\ \underline{-18} \\ 2$$

$$\frac{3}{1} \cdot \frac{-5}{8} = \frac{a}{6} \cdot 6$$

$$-\frac{15}{4} = a$$

$$-3\frac{3}{4} = a$$

$$\frac{-1}{4} \cdot \frac{-3}{5} k = \frac{18}{35} \cdot \frac{-6}{1}$$
$$\boxed{k = -\frac{6}{7}}$$

$$\frac{1}{4} \cdot 4n = -2\frac{1}{3} \cdot \frac{1}{4}$$

$$n = -\frac{7}{3} \cdot \frac{1}{4}$$

$$\boxed{n = -\frac{7}{12}}$$

Homework:

Buff worksheet 6

Test
Thursday
due Wed.