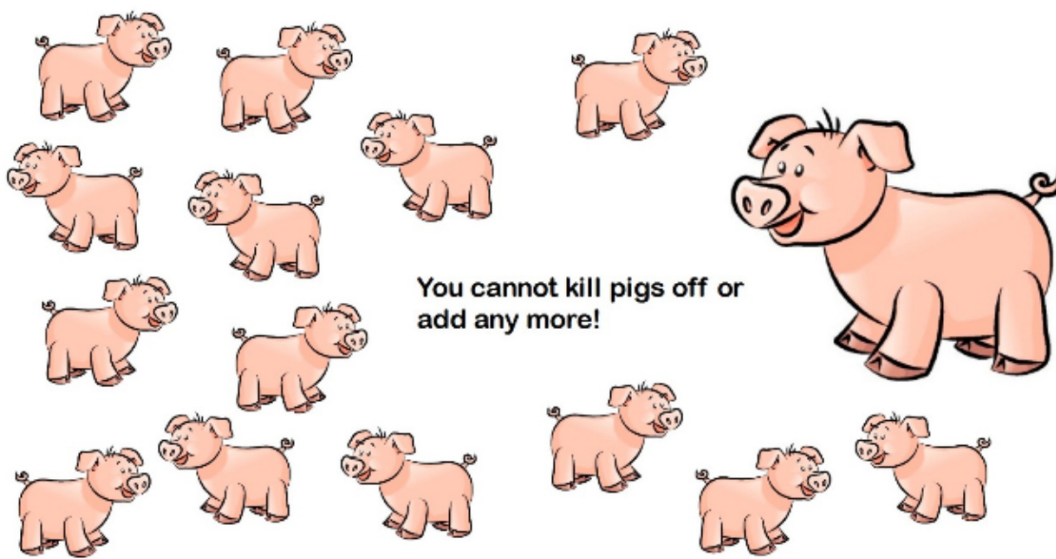


# December 4, 2014

## Starter

1<sup>st</sup>  
2<sup>nd</sup>

Put 15 pigs in exactly 4 pens so that there are an odd number of pigs in each pen.



## 12/4 - Solving One-Step Multiply/Divide Equations with Rational Numbers (Fractions)

How would you get the variable by itself in each of these situations?

$$n + 5$$

~~-5~~

$$n + (-5)$$

~~n - 5~~  
~~+5~~

$$\frac{5n}{5}$$

$$n - 5$$

~~+5~~

$$n - (-5)$$

~~n + 5~~  
~~-5~~

$$\frac{n}{5} \cdot 5$$

Multiply by the reciprocal

$$\frac{1}{2}n \cdot \frac{2}{1}$$

$$\frac{2}{3}n \cdot \frac{3}{2}$$

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

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

# Solve these...

**Remember:**

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

$$\begin{aligned} -\frac{20}{6} &= \frac{6k}{6} \\ -3\frac{2}{6} &= k \\ -3\frac{1}{3} &= k \end{aligned}$$

$$\begin{aligned} \frac{+5}{2} \cdot \frac{+3}{5} n &= \frac{18}{35} \cdot \frac{-5}{-2} \\ n &= -\frac{6}{7} \end{aligned}$$

$$\begin{aligned} \frac{3}{-6} \cdot \frac{-5}{8} &= \frac{v}{6} \cdot \frac{6}{6} \\ -\frac{15}{4} &= v \\ -3\frac{3}{4} &= v \end{aligned}$$

$$\cancel{\frac{4p}{4}} = -2\frac{1}{3} \cdot \frac{1}{4} \quad \underline{-3\frac{1}{3} = 1\frac{3}{4}m}$$

$$p = -\frac{7}{3} \cdot \frac{1}{4} \quad \frac{4}{7} \cdot -\frac{10}{3} = \frac{7}{4}m \cdot \frac{4}{7}$$

$$p = -\frac{7}{12}$$

$$-\frac{40}{21} = m$$

$$-\frac{19}{21} = m$$

$$2\sqrt{\frac{40}{21}} = \frac{1}{19}$$

**Homework**

Green WS4

**Due** Monday