

December 17, 2014<sup>5th</sup>  
<sup>6th</sup>

Starter

Solve each equation for the given variable.

$$\begin{aligned} \textcircled{1} \quad 2k + 1 &= -9 \\ \quad \quad \quad -1 &\quad -1 \\ \hline 2k &= -10 \\ \quad \quad \quad \frac{2k}{2} &= \frac{-10}{2} \\ \quad \quad \quad k &= -5 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{n}{-3} + 2 &= 1 \\ \quad \quad \quad -2 &\quad -2 \\ \hline -3 \cdot \frac{n}{-3} &= -1 \div -3 \\ \quad \quad \quad n &= 3 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad -10 &= 8 - 2h \\ \quad \quad \quad -8 &\quad -8 \\ \hline -18 &= -2h \\ \quad \quad \quad \frac{-18}{-2} &= \frac{-2h}{-2} \\ \quad \quad \quad 9 &= h \end{aligned}$$

candystripe

## 12/17 Solving Multi-Step Equations with Integers

### **Steps for solving today's multi-step equations:**

1. Get rid of ( )  
"shoot the arrows"
2. Undo +/-  
Get rid of "extras"
3. Undo x/ $\div$   
.

$$3(4k - 3) = -81$$
$$12k - 9 = -81$$

$+9$        $+9$

$$\frac{12k}{12} = \frac{-72}{12}$$

$$k = -6$$



# Try these...

$$2(3x - 1) = 10$$

$$6x - 2 = 10$$

+2   +2

$$\frac{6x}{6} = \frac{12}{6}$$

$$x = 2$$

$$-6 = 3(4 - 3x)$$

$$-6 = 12 - 9x$$

-12   -12

$$\frac{-18}{-9} = \frac{-9x}{-9}$$

$$2 = x$$

Queso  
Si

$$-4(2x - 3) = 52$$

$$-8x + 12 = 52$$

-12   -12

$$\frac{-8x}{-8} = \frac{40}{-8}$$

$$x = -5$$



# Homework

Due

