Period 3: Warm-Up

Evaluate the expression (aka find what it simplifies to)

1) $162 \div [6 (7-4)^2]$

$162 \div [6(9)]$

$162 \div 54$

$= 3$

2) $\dfrac{(2.5)^2 + 4}{3^2 - 5} = \dfrac{104}{4}$

$10 \cdot 10$

$\dfrac{10^2 + 4}{3^2 - 5} = \dfrac{104}{4} = 26$

$3 \cdot 3$

3) $15(14 - 39 \div 3) + 4 \cdot \dfrac{1}{4}$

0.25

$15(14-13)+1$

$15 \cdot (1) + 1$

$15 + 1$

16

1.1 Solving Simple Equations

Properties

Addition

If $a = b$ then $a + c = b + c$

Subtraction

If $a = b$ then $a - c = b - c$

Ex) a) $x - 3 = -5$

$+3 \quad +3$

$x = -2$

b) $0.9 = y + 2.8$

$-2.8 \quad -2.8$

$-1.9 = y$

$y = -1.9$

You Try!

a) $n + 3 = -7$

$-3 \quad -3$

$n = -10$

b) $g - \frac{1}{3} = -\frac{2}{3}$

$+\frac{1}{3} \quad +\frac{1}{3}$

$g = -\frac{1}{3}$

$g = -\frac{1}{3}$

c) $-6.5 = p + 3.9$

$-3.9 \quad -3.9$

$-10.4 = p$

Properties

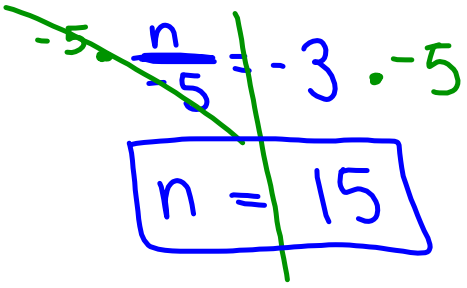
Multiplication

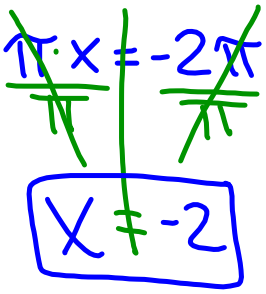
If $a = b$ then $a \cdot c = b \cdot c$

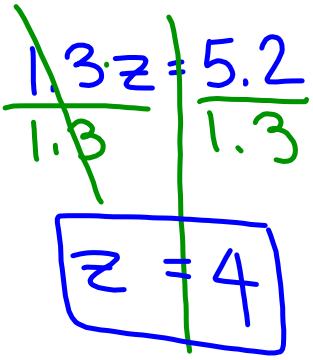
Division

If $a = b$ then $\frac{a}{c} = \frac{b}{c}$

Ex) a) $-\frac{n}{5} = -3$ b) $\pi \cdot x = -2\pi$ c) $1.3z = 5.2$







You Try!

a) $\frac{y}{3} = -6$ b) $9 \cdot \pi = \pi \cdot x$ c) $0.05w = 1.4$

In the Olympic trials, Usain Bolt won the 200-m dash with a time of 19.35 seconds. What was his average speed?

Hint: