Stick Quiz

Translate the sentences into equations.

1. ***Half a number minus ten equals the number.***

2. ***The sum of c and twice d is the same as 20.***

3. **Translate the equation, $10(a - b) = b + 3$, into a verbal sentence**

4. ***The area of a triangle is 1/2 times the base times the height. Writ a formula.***

I can... solve Multi-Step Equations.

Will answer questions about the front load after the lesson

Remember Number Properties

Give me a list of all properties we discussed last chapter.

addition inverse
Mult inverse
additive identity
distributive
substitution
commutative • +
associative • +
reflexive
symmetric
zero prop
transitive
mult identity

ON BOTH SIDES

Additive Prop of Equality
Subtraction " " "
Mult " " "
Division " " "

Addprop =

$2 \cdot 3 = 3 \cdot 2$

$6 = 6$

$2 \cdot 5 = 5^2$

$10 = 10$

$5 = 5$
$+3 \quad +3$
$8 = 8$

$5 = 5$
$-2 \quad -2$
$3 = 3$

1. Solve and list property for every step.

SADMERP

Watch only!!

$h - 12 = -27$

+12 +12

$h = -15$

Add prop= (Add inverse)

1. Draw river
2. start on variable side
3. + −
4. • ÷
5. substitute/check

Substitute

$-15 - 12 \stackrel{?}{=} -27$

$-27 = -27$

2. Solve and list property for every step.

$90 + x = 37$

Substitute

3. Solve and list property for every step.

$-75 = -15b$

Substitute

4. Solve

$3 \cdot \frac{x}{3} = 4 \cdot 3$

Mult Inverse Mult Prop=

$x = 12$

Substitute

I can... solve Multi-Step Equations.

1. Solve and list property for every step.

$2q + 11 = 3$

$-11 \quad -11$

$\frac{2q}{2} = \frac{-8}{2}$

$1q = -4$

$q = -4$ ✓

Add Inverse
Sub prop =

Mult Inverse
Division prop =

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

Substitute

$2(-4) + 11 \stackrel{?}{=} 3$

$-8 + 11$

$3 = 3$

2. Solve and list property for every step.

$6v + 7 = -5$

Substitute

SADMERP

3. Solve and list property for every step.

$\frac{(k+9)}{12} = -2 \cdot 12$

$k + 9 = -24$

$-9 \quad -9$

$K = -33$ ✓

Mult Inverse
Mult Prop =
add inverse
Subt. prop =

Substitute

$\frac{-33+9}{12} \stackrel{?}{=} -2$

$-2 = -2$ ✓

Solve and list property for every step.

4. $\frac{-4j + (+4)}{-6} = 12$

5. $\frac{4}{5}m + 2 = 6$

$-2 \quad -2$

$\frac{5}{4} \cdot \frac{4}{5}m = 4 \cdot \frac{5}{4}$

$m = 5$

Find three consecutive even integers whose sum is 84.

X is the 1st even #

X

X+2

X+4

$X + X+2 + X+4 = 84$

$3X + 6 = 84$

$-6 \quad -6$

$3X = 78$

Homework

2.2 Pg. 86 #18-41o, 42, 43

2.3 Pg. 94 #11-21o, 24-29, 41