Math 8

Our Goal: To learn to solve multi-step equations

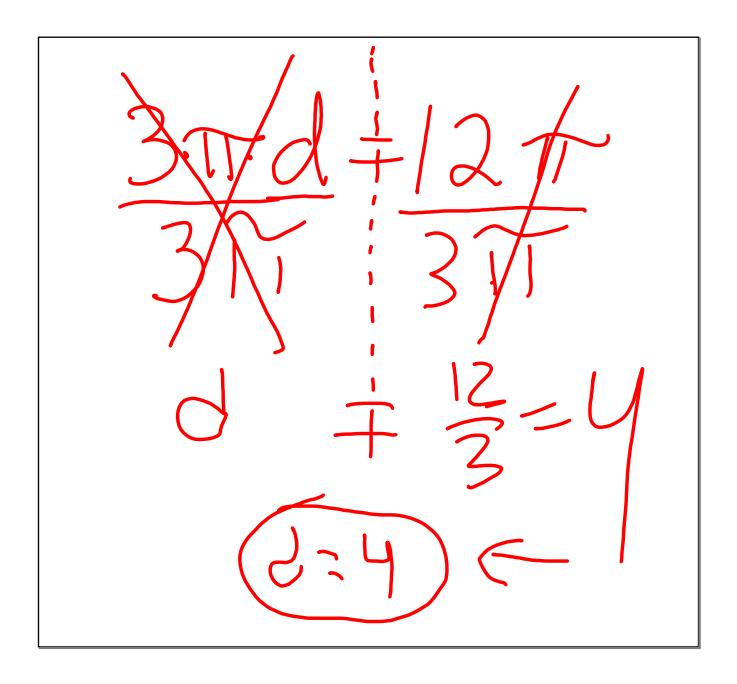
<u>Warm Up</u>: You will need your homework, notebook, and computer Everything else, bags etc. on the shelves please

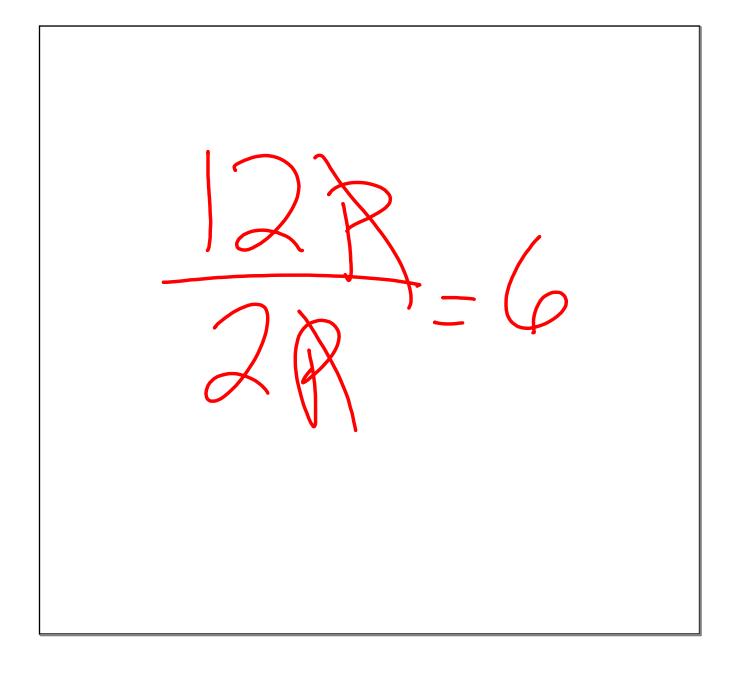
<u>Today's Homework</u>

1.2 Exercises, p.14-15: 2-18 (evens)

Previous Homework

1.1 Exercises, p.7-9: 2-36 (evens)





Simplify the expression.

1)
$$2n + 5 + 3n$$

3)
$$4f + f + 6f$$

4)
$$(9 - m) + 4m + 7$$

6)
$$(y + 7) + (2y - 5)$$

$$(9-m)+4m+7$$
 $9-m+4m+2$
 $=3m+16$
 $-16+3m$



Solving Multi-Step Equations

To solve multi-step equations, use inverse operations to isolate the variable.

The height (in feet) of a tree after x years is 1.5x + 15. After how many years is the tree 24 feet tall?

Solve 8x - 6x - 25 = -35.

$$8x - 6x - 25 = -35$$

$$2x - 35 = -35$$

$$2x = -10$$

$$-10x = -5$$

Solve
$$2(1 - 5x) + 4 = -8$$
.

$$2(1-5x)+4=-8$$

$$2(1-5x)+4=-8$$

$$-10x+9$$

$$-10x+9$$

$$-10x+14$$

$$-10x+1$$

Use the table to find the number of miles *x* you need to run on Friday so that the mean number of miles run per day is 1.5.

Day	Miles
Monday	2
Tuesday	0
Wednesday	1.5
Thursday	0
Friday	X