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② B                      ⑦ 23.4      ⑫ 0.6                      ⑳ 0.77

③ equal to      ⑧ 108.2      ⑬ 8.8                      ⑳ 2.22

④ is approximately,      ⑭ -75.1                      ㉑ 0.94

equal to                      ① -13.9      ㉒ 5.78                      ㉓ 0.42

⑤ does it equal?      ⑩ 63.0      ㉔ 7.57                      ㉕ 0.61

⑥ does not equal or  
is unequal to      ⑪ 56.1                      ㉖ 4.33                      ㉗ -2.63

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$$\begin{array}{r} 8.79x - 6.54 = 6.48 + 13.75x \\ -8.79x \qquad \qquad \qquad -8.79x \\ \hline \end{array}$$

$$\begin{array}{r} -6.54 = 6.48 + 4.96x \\ -6.48 \qquad \qquad -6.48 \\ \hline \end{array}$$

$$\begin{array}{r} -13.02 = 4.96x \\ \hline 4.96 \qquad \qquad 4.96 \end{array}$$

$$\underline{\underline{-2.63 \approx x}}$$

Quiz Tomorrow,

Oct. 19, 2006

3.1 - Solve Equ. w/ Add + Subt.

3.2 - Solve Equ. w/ Multi. + Divi.

↳ Recip.

3.3 - Multi. Step. Equ.

and More

3.4. - Variable on Both Sides ↗

3.6. Decim.

↳ exact + Approx

↳ Approx. only

# Concepts to Remember

The Goal: to get the Variable  
By Itself.

What ever we do to one side  
of the equal sign

We Must do to the other side  
a.k.a. : The Rotten Kid Theory

# The Questions:

- Where is the Variable?
- What is happening to it  
Right Now?
- What is the opposite operation?
- Do it!

\*The Process: \*  
\*The 4 Steps + Def<sup>ns</sup> to Solve Equations

- ① Simplify: a) No Grouping Symbols  
b) Combine Like Terms
- ② Collect the Variables: Get all the Variables to One Side  
a.k.a.: The Happy Dance!
- ③ In-Verse Operations: Do the Reverse "Order of Operations"; what ever you must, to get the Variable by itself.
- ④ Check: Plug the Value for the Variable into the equation to see if it works.

$$\frac{3}{4}(x+8) = 9$$

$$\frac{3}{4}(x) + \frac{3}{4}(8) = 9$$

$$\frac{3}{4}x + 6 = 9$$

$$\frac{3}{4}x - 6 = 9 - 6$$

$$\frac{4}{3}\left(\frac{3}{4}x\right) = \frac{4}{3}(3)$$

$$\underline{\underline{x = 4}}$$

Use the Dist. prop  
or  
the Recip.

$$\frac{4}{3}\left(\frac{3}{4}(x+8)\right) = \frac{4}{3}(9)$$

$$x+8 = 12$$

$$\underline{\underline{x = 4}}$$

Dist.  
Prop.

$$\frac{3}{4}(4x+8) + 7x = 2x + 7$$

$$\frac{3}{4}(4x) + \frac{3}{4}(8) + 7x = 2x + 7$$

$$3x + 6 + 7x = 2x + 7$$

$$10x + 6 = 2x + 7$$

$$\underline{-2x \quad -2x}$$

$$8x + 6 = 7$$

$$\underline{-6 \quad -6}$$

$$8x = 1$$

$$\underline{\underline{x = \frac{1}{8}}}$$

Really Know  $f \lambda e$

- 1 Solution
- No Solution
- Identity



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$$4.65x - 4.79 = 6.84x$$

Study +  
Know Everything  
||  
☺