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② B ⑦ 23.4 ⑫ 0.6 ⑰ 0.77

③ equal to ⑧ 108.2 ⑬ 8.8 ⑲ 2.22

④ is approximately, ⑭ -75.1 ⑳ 0.94

equal to ① -13.9 ⑳ 5.78 ⑳ 0.42

⑤ does it equal? ⑩ 63.0 ㉓ 7.57 ㉔ 0.61

⑥ does not equal or
is unequal to ⑪ 56.1 ㉕ 4.33 ㉖ -2.63

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

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

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

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

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^{ns} 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.

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

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

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

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

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

Use the Dist. prop
or
the Recip.

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

$$x+8 = 12$$

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

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

Dist.
Prop.

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

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

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

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

$$8x + 6 = 7$$

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

$$8x = 1$$

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

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

Really Know $f \lambda e$

- 1 Solution
- No Solution
- Identity

33

$$4.65x - 4.79 = 6.84x$$

Study +
Know Everything
||
☺