Ch 3.2: Multi-step equations

Rules: 1. Do the Distributive Property
   2. C.L.T. Combine like terms (label stays the same)
   3. +/-: by doing the opposite
   4. x/÷: by doing the opposite

Ex1a) $3x - x + 15 = 41$

Ex1b) $2x - 1x + 9 = -1$
          $\overline{5}$ $\overline{5}$

[1] **Try 1.   2x - 9x + 17 = -4**

Ex2a) $5(x - 7) = 90$

Ex2b) $\frac{3}{4}(x + 6) = 12$

Ex2c) $6x - (-3x + 2) = 10$

[2] **Try 2. 4x - 3(x - 2) = 21**

Ex 3) Solve for y:

Ex3a) $-2x + 5y - 7 = -12$ Ex3b) $2(y + 5) = 4x$

Ex4) Story Problems:
   Rules: 1. Assign labels
      2. Write an equation
      3. Solve
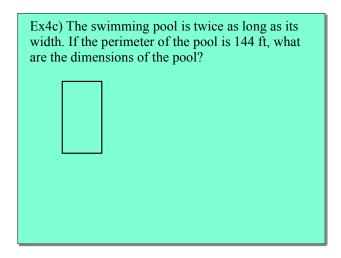   4. Check your answers and ask
         yourself does it make sense.

Ex3a) Sally and Sue need to make 105 gift baskets for Christmas. If Sally makes 20 baskets/hour and Sue makes 15 baskets/hour, how long will it take them to finish?

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Ex3b) The benefit sold 250 tickets. They charged $5 for kids and $10 for adults. If they made $1500, how many of each type of ticket did they sell?

* can only use one variable.

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Ex4c) The swimming pool is twice as long as its width. If the perimeter of the pool is 144 ft, what are the dimensions of the pool?

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