

BE-1A MONDAY 11-26-07

① Simplify: $4(x+2) + 3x$

② Simplify: $2x + 3x^2 - 5x + 4x^2$

③ Simplify: $\frac{8x+16}{2}$

SOLVE:

④ $\frac{2}{7}x = \frac{5}{4}$

• m/u Quizzes

• Review Graded Q5 + Homework

1.
So far in Ch. 3 we have been
SOLVING "1 UNDO" AND "2 UNDO" EQUATIONS.
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 single-step MULTI-STEP
 (MULTIPLE)

LET'S LOOK AT A NEW TYPE...

WHAT IS NEW ABOUT THIS EQUATION?

$$-2 + 10p = 8p - 1$$

WHAT IS YOUR GOAL?

💡 Tip: WHEN your variable, in this case p ,
is on both sides - your first
step is TO use AN UNDO TO get
all the p 's TOGETHER

$$\begin{array}{rcl} -2 + 10p & = & 8p - 1 \\ -8p & -8p & \end{array}$$

$$\begin{array}{rcl} -2 + 2p & = & -1 \\ +2 & & +2 \end{array}$$

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

$$\boxed{p = \frac{1}{2}}$$

Compare the two ways to get the p's together:

$ \begin{array}{r} -2 + 10p = 8p - 1 \\ \quad - 8p \quad - 8p \\ \hline -2 + 2p = -1 \\ +2 \qquad \qquad +2 \\ \hline 2p = 1 \\ \frac{2p}{2} = \frac{1}{2} \\ \boxed{p = \frac{1}{2}} \end{array} $	$ \begin{array}{r} -2 + 10p = 8p - 1 \\ \quad - 10p \quad - 10p \\ \hline -2 = -2p - 1 \\ +1 \qquad \qquad +1 \\ \hline -1 = -2p \\ \frac{-1}{-2} = \frac{-2p}{-2} \\ \boxed{\frac{1}{2} = p} \end{array} $
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SHOULD GET SAME ANSWER IF YOU DO YOUR UNDO'S correctly.

THIS WAS EX 1 PG 149

CH 3-5 "SOLVING EQUATIONS WITH THE VARIABLE ON EACH SIDE"

ⓔx $20c + 5 = 5c + 65$

💡 If your equation has parentheses, get terms OUT OF "parentheses jail" before combining like terms and starting "undos".

ⓔx $3(a-5) = -6$

$3(a-5) = -6$

$3a - 15 = -6$

$+15 \quad +15$

$\frac{3a}{3} = \frac{9}{3}$

$\boxed{a = 3}$

ck $3[(3)-5] \stackrel{?}{=} -6$

$$\textcircled{\text{EX}} \quad \frac{3}{8} - \frac{1}{4}t = \frac{1}{2}t - \frac{3}{4}$$

↑
COULD START BY
ADDING $\frac{1}{4}t$ TO BOTH SIDES

💡 MULTIPLY BOTH SIDES BY 8

$$8 \left(\frac{3}{8} - \frac{1}{4}t \right) = \left(\frac{1}{2}t - \frac{3}{4} \right) 8$$

$$3 - 2t = 4t - 6$$

$$+ 2t \quad + 2t$$

$$3 = 6t - 6$$

$$+ 6 \quad + 6$$

$$\frac{9}{6} = \frac{6t}{6}$$

$$\boxed{\frac{3}{2} = t}$$

Homework: Page 152 # 16 to 21