BE-1A TUESDAY 10-30-07

1. How do you "undo" subtraction?
2. How do you "undo" division?
3. How do you "undo" multiplication by -16?
4. What is the GRE?
5. Solve and check:

$$x - 12.4 = 14.2$$

Ch 3-2 Solving Equations using $+, -$

Ch 3-3 Solving Equations using $\cdot, \div$

"single step" equations

or "one undo" equations

(Ex) $\frac{x}{10} = 5$

$10 \cdot \frac{x}{10} = 5 \cdot 10$

$\frac{10}{1} \cdot \frac{x}{10} = 50$

$\boxed{x = 50}$

CK $\frac{(\ )}{10} \stackrel{?}{=} 5$

$\frac{(50)}{10} \stackrel{?}{=} 5$ ✓

(Ex 1 Pg 135) $\frac{t}{30} = \frac{7}{10}$

Ex $-\frac{x}{2} = 9$

Ex $3x = 12$

$\frac{3x}{3} = \frac{12}{3}$

$\frac{3}{3}x = 4$

$x = 4$

Ck $3(\ ) \stackrel{?}{=} 12$

$3(4) \stackrel{?}{=} 12$ ✓

Ex $-5x = 11$

Ex 3 Pg 136

$$\frac{42}{-6} = \frac{-6m}{-6}$$

$$-7 = m$$

$$\boxed{m = -7}$$

CK $42 \stackrel{?}{=} -6(-7)$ ✓

Ex

$$\frac{2}{3}x = 18$$

$$\frac{3}{2} \cdot \frac{2}{3}x = 18 \cdot \frac{3}{2}$$

$$1x = \frac{18}{1} \cdot \frac{3}{2}$$

$$\boxed{x = 27}$$

CK $\frac{2}{3}(27) \stackrel{?}{=} 18$ ✓

Ex 2 Pg 136

$$\left(2\tfrac{1}{4}\right)g = 1\tfrac{1}{2}$$

$$\frac{9}{4}g = \frac{3}{2}$$

$$\frac{4}{9}\cdot\frac{9}{4}g = \frac{3}{2}\cdot\frac{4}{9}$$

$$1g = \frac{\overset{1}{\cancel{3}}}{\underset{1}{\cancel{2}}}\cdot\frac{\overset{2}{\cancel{4}}}{\underset{3}{\cancel{9}}}$$

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

CK $\quad \frac{9}{4}\left(\frac{2}{3}\right) \stackrel{?}{=} \frac{3}{2}$

$$\frac{\overset{3}{\cancel{9}}}{\underset{2}{\cancel{4}}}\left(\frac{\overset{1}{\cancel{2}}}{\underset{1}{\cancel{3}}}\right) \stackrel{?}{=} \frac{3}{2} \quad \checkmark$$

YOUR TURN:
Pg 138 # 4 to 7

HOMEWORK:
- Reno Ch 3-3
- Pg 138 # 13-19