BE-1A TUESDAY 10-5-10

① WHAT IS THE GRE? (NOT just the NAME, what is the RULE?)

② WHAT DOES IT MEAN TO "SOLVE" AN EQUATION?

③ SOLVE AND CHECK: $X + 12 = -18$

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③ $X + 12 = -18$

$-12 \quad -12$

$\boxed{X = -30}$

CK $(\ ) + 12 \stackrel{?}{=} -18$

$(-30) + 12 \stackrel{?}{=} -18$

$-18 \stackrel{?}{=} -18$ ✓

- TAKE OUT HOMEWORK Pg. 131 #4-10.

* MULTIPLICATION AND DIVISION "UNDO" EACH OTHER

(Ex) START WITH 8

MULTIPLY BY 2

16

TO GET BACK TO 8, divide 16 by 2 = 8

(Ex) START WITH 10, divide by 5

$\frac{10}{5} = 2$ To "undo", MULTIPLY BY 5

$2 \cdot 5 = 10$ ✓

(Ex) SOLVE: $\frac{4x}{4} = \frac{16}{4}$

$1x = 4$

$\boxed{x = 4}$

CK $4(4) \stackrel{?}{=} 16$ ✓

(Ex) $\frac{-3x}{-3} = \frac{-15}{-3}$

$\boxed{x = 5}$ CK $-3(5) \stackrel{?}{=} -15$ ✓

(Ex) $\frac{x}{7} = 2$

$7 \cdot \frac{x}{7} = 2 \cdot 7$

$\boxed{x = 14}$ CK: $\frac{(14)}{7} \stackrel{?}{=} 2$ ✓

(Ex) $\frac{x}{-3} = 1$

$-3 \cdot \frac{x}{-3} = 1 \cdot -3$

$\boxed{x = -3}$ CK $\frac{(-3)}{-3} \stackrel{?}{=} 1$ ✓

(E) $\frac{3}{4}x = 11$

$\frac{3}{4}$ $\frac{3}{4}$

$x = \frac{11}{1} \cdot \frac{4}{3}$

$\boxed{x = \frac{44}{3}}$

OR $\frac{4}{3} \cdot \frac{3}{4}x = 11 \cdot \frac{4}{3}$

$\boxed{x = \frac{44}{3}}$

CK $\frac{\cancel{3}}{\cancel{4}_1}\left(\frac{\cancel{44}^{11}}{\cancel{3}_1}\right) \stackrel{?}{=} 11$

$11 \stackrel{?}{=} 11$ ✓

Homework: Pg 138 #13 to 20