Find the EXACT solution to each equation.

1.) $\frac{A}{2} = 14 \cdot 2$

$A = 28$

2.) $5 - \frac{K}{6} = 17$

$-5 \quad -5$

$-\frac{K}{6} = 12 \cdot -6$

$K = -72$

3.) $8 + \frac{3}{11}x = 23$

$-8 \qquad -8$

$11 \cdot \frac{3}{11}x = 15 \cdot 11$

$\frac{3}{3}x = \frac{15}{3} \cdot 11 = 55$

4.) $8H - 2 + 2H + 13 = 41$

$10H + 11 = 41$

$10H = 30$

$H = 3$

5.) $5 - 4(2x - 6) + 4x - 15 = 2$

$5 - 8x + 24 + 4x - 15 = 2$

$-4x + 14 = 2$

$-4x = -12$

$x = 3$

6.) $2(3x - 9) + 12 = -42$

$6x - 18 + 12 = -42$

$6x - 6 = -42$

$6x = -36$

$x = -6$

7.) $5x + 17 = 32 + 3x$

$-3x \quad -3x$

$2x + 17 = 32$

$2x = 15$

$x = \frac{15}{2}$

8.) $8 + 2(x - 4) = 66 - 7x + 19 - 8x$

$8 + 2x - 8 = 66 - 7x + 19 - 8x$

$2x = 85 - 15x$

$17x = 85$

$x = 5$

9.) Solve for B

$A(B - G) + Z = R$

$-Z \quad -Z$

$A(B-G) = R - Z$

$B - G = \frac{R-Z}{A}$

$B = \frac{R-Z}{A} + G$

10.) Solve for Y

$R = \frac{Y-H}{C}$

$RC = Y - H$

$RC + H = Y$

11.) **Five consecutive multiples of four have a sum of 260. Write and solve an equation to find these numbers.**

$x + (x+4) + (x+8) + (x+12) + (x+16) = 260$

44, 48, 52, 56, 60

$5x + 40 = 260$

$5x = 220$

$x = 44$

$4 > 4$

$8 > 4$

$12 > 4$

$16 > 4$

$20 > 4$

1.) Four consecutive odd numbers have a sum of -296. Write and solve an equation to find these four numbers.

$x + (x+2) + (x+4) + (x+6) = -296$

$-77, -75, -73, -71$

$4x + 12 = -296$

$4x = -308$

$x = -77$

1
3
5
7
9

2.) Four consecutive integers have a sum of 154. Write and solve an equation to find these integers.

$x + (x+1) + (x+2) + (x+3) = 154$

37, 38, 39, 40

$4x + 6 = 154$

$4x = 148$

$x = 37$

3.) Three consecutive even numbers have a sum of -168. Write and solve an equation to find these numbers.

$-30 \quad -54$

$x + (x+2) + (x+4) = -168$

-58

2, 4, 6, 8, 10

$3x + 6 = -168$

$3x = -174$

$x = -58$

Review Classwork --

In your group, work on the following practice problems:

- Pages: 125 - 127
- Problems: 1-3, 5, 20, 21, 27, 28, 29, 30, 39, 40, 41, 44, 46, 48, 50, 51, 52, 55, 60-62

- Complete on a separate sheet of paper.
- Show YOUR work!
- Discuss answers!