## Intro to college math: Chapter 2.1 Solving Basic Equations

1. Solve the following equation:  $z + \frac{1}{a} = -\frac{3}{4}$ 

$$z + \frac{1}{10}z = -\frac{3}{10}z$$

$$z = -\frac{5}{10}z$$

- \* Now we want the Yariable an one side and the numbers on the other side.
- \* To move the number from one side to the other, do the apposite. Lif a + , then subtract; if a - then add)
- P 14 = -52. Solve the following equation:

$$P-14/=-5$$
+14

 $P=9$ 

- \* Now we want the Yariable on one side and the numbers on the other side.
- \* To move the number from one side to the other, do the opposite. Lif a + , then subtract; if a - then add)

3. Solve: -3y = 12

$$-3y = 12$$

$$-3$$

- \* Now we want the Yariable an one side and the numbers on the other side.
- \* To move the number that is right beside a variable, we do the apposite. So since this is multiplication, We will da division.

4. Solve. 
$$-2\chi = -18$$

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

$$x = -9$$

- \* Now we want the Yariable on one side and the numbers on the other side.
- \* To move the number that is right beside a variable, we do the apposite. So since this is multiplication, we will do division.

\* Remember: 
$$\frac{(-)}{(-)} = (+)$$

5. Solve the following equation for the variable using the multiplication property of equality.  $\frac{\Upsilon}{lo} = -7$ 

10. 
$$\frac{\chi}{10} = -7.10$$
 ~ multiply each side by denominator  $\chi = -70$   $\chi = -70$   $\chi = -70$ 

6. Solve the equation for the variable using the multiplication property of equality.  $\frac{b}{-10} = 10$ 

$$-10 \cdot \frac{b}{-10} = 10 \cdot -10$$

$$\frac{b}{\text{sides by}}$$

$$\frac{-10b}{-10} = -100$$

$$\frac{b}{-10} = -100$$

$$\frac{b}{-10} = -100$$

$$\frac{b}{-100} = -100$$

27 = 60

7=30

$$\frac{2}{5}$$
 = 12, divide both sides by number nucl by number nucl by variable

$$-\frac{3}{4} = \frac{1}{19}b$$

$$-\frac{3}{12} = \frac{1}{12} = \frac{1}{12}$$