Period \_\_\_\_\_

Solve the Following Equations

1. 
$$2x+5x-4x=5(3)$$

2. 
$$18 = 8x + 6 - 7x + 12$$

Determine if the Solution makes each Equation True.

3 Does 
$$x = 3$$
?

$$9 + 2x = 33$$

$$9 + 2x = 33$$

4 Does 
$$x = 12$$
?

$$26 = 3x - 10$$

5 Does 
$$x = 4$$
?

$$6x - 5 = 13 + 2x$$

- **6.** Which equations have 6 as a solution? Check all that apply.
  - $\Box$  A. 8b = 48

 $\Box$  C. b + 3 = 9

 $\Box$  B. 11 - b = 6

 $\Box$  D. 54 ÷ b = 9

- 7. Writing Your teacher solved the equation 4x + 1 = 22 + x. Unfortunately, due to messy handwriting, you are not sure if the solution is 2, 7, or 8.
  - a) Describe how you can find the solution without solving the equation again.

b) Use this to find the solution.

Period \_\_\_\_\_

olve the Following Equations.

1. 
$$2x+5x-4x=5(3)$$

$$3 \times = 15$$

$$3 \times = 3$$

$$3 \times = 5$$

2. 
$$18 = 8x + 6 - 7x + 12$$

$$18 = 8x - 7x + 6 + 12$$

$$18 = x + 18$$

$$-18 = 718$$

Determine if the Solution makes each Equation True.

3

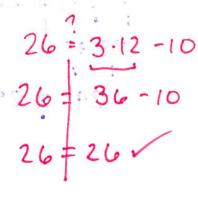
Does 
$$x = 3$$
?

$$9 + 2x = 33$$

$$9+2.3=33$$
 $9+6=33$ 
 $15=33$ 

Does 
$$x = 12$$
?

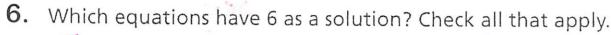
$$26 = 3x - 10$$



Does 
$$x = 4$$
?

$$6x - 5 = 13 + 2x$$

No!



$$\triangle$$
 A.  $8b = 48$ 

$$C. b + 3 = 9$$

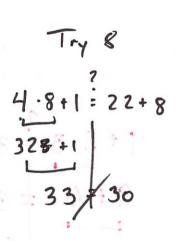
$$\Box$$
 B. 11-b=6

$$\bigcirc$$
 D. 54 ÷ b = 9

- 7. Writing Your teacher solved the equation 4x + 1 = 22 + x. Unfortunately, due to messy handwriting, you are not sure if the solution is 2, 7, or 8.
  - a) Describe how you can find the solution without solving the equation again.

You can plug in (Substitute) the possible Solutions into the equation and see which value balances the equation.

b) Use this to find the solution.



The solution is 7!