Name:

Date:

#### Solving Algebra Equations

### Section A – Solving One Step Equations

Solve each equation.

(a) 
$$w + 4 = 10$$

(b) 
$$y-2=9$$

(c) 
$$6m = 42$$

$$m =$$

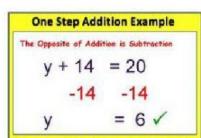
(d) 
$$a - 25 = 5$$
  $a = ____$ 

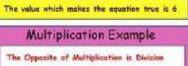
$$a =$$

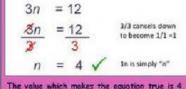
(e) 
$$\frac{b}{5} = 40$$
  $b = _____$ 

(f) 
$$5 + k = 12$$
  $k =$ 

$$k =$$





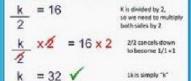


# ONE STEP SUBTRACTION EXAMPLE The Opposite of Subtraction is Addition

$$x - 120 = 80$$
  
+120 +120  
 $x = 200 \checkmark$ 

The value which makes the equation true is 200.





## Section B – Solving Two Step Equations

Solve each question.

(a) 
$$6a + 2 = 20$$
  $a =$ 

$$a =$$

(b) 
$$2d + 4 = 10$$

$$d =$$

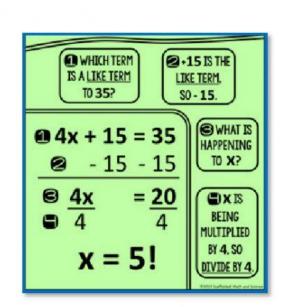
(c) 
$$4z - 8 = 8$$

(d) 
$$3c - 6 = 15$$
  $c = _____$ 

(e) 
$$\frac{\mathbf{r}}{4} + 4 = 3$$
  $\mathbf{r} =$ 

(f) 
$$4(m-6) = 16$$
  $m =$ 

**\*BONUS\*** (g) 
$$4e + 5 = 14 + e$$
  $e =$ 



#### Sec

ction C – Application Problems	
1. Tony had \$z. He lost \$3.	
a) Write an algebraic expression for the amount he has left.	
Answer: \$	
Tony now has \$2 left.	
a) Write an algebraic equation to show all of this information.	
Answer: \$	
b) Solve your equation formed in (b) to find 'z'.	
Answer: <i>z</i> =	

2. Brianna thinks of a number y, she multiplies it by 2 then subtracts 5.



a) Write an expression to show the number Brianna is thinking of.

Answer:				
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The answer that Brianna gets is 7.

b) Write an equation to show this information.

Answer: \_\_\_\_\_

c) Solve your equation to find the value of 'y'.

Answer: y =