



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Algebra 1 – Unit 2 – Equations (Challenge)

1. If  $6x + 5 = 23$ , subtract what from both sides to get  $6x = 18$ ?
2.  $8x + 14 = 118$
3.  $3x + 17 = 26$
4. If  $2x + 8 = 22$ , subtract what from both sides to get  $2x = 14$ ?
5. If  $x = 11$  makes  $3x + 4 = 3x + ?$  true, find ?
6.  $5x + 13 = 78$
7.  $6x + 5 = 23$
8. If  $x = 4$  makes  $4x + 4 = 6x + ?$  true, find ?



# Algebra 1 – Unit 2 – Equations (Challenge) – Answer Key

1. If  $6x + 5 = 23$ , subtract what from both sides to get  $6x = 18$ ?

x = 5

2.  $8x + 14 = 118$

x = 13

3.  $3x + 17 = 26$

x = 3

4. If  $2x + 8 = 22$ , subtract what from both sides to get  $2x = 14$ ?

x = 8

5. If  $x = 11$  makes  $3x + 4 = 3x + ?$  true, find ?

x = 4

6.  $5x + 13 = 78$

x = 13

7.  $6x + 5 = 23$

x = 3

8. If  $x = 4$  makes  $4x + 4 = 6x + ?$  true, find ?

x = -4