



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

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

## Algebra 1 – Unit 2 – What Are Solutions? (Hard)

1. Is  $x = 5$  a solution to  $7x = 2x + 7$ ? (1=Yes, 0=No)
6. Find  $x$  if  $x + 13 = 20$

2. Find  $x$  if  $x + 10 = 18$

7. Does  $2x + 9 = 2x + 11$  have a solution?

3. Is  $x = 7$  a solution to  $5x = 1x + 8$ ? (1=Yes, 0=No)

8. Find  $x$  where  $4x + 9 = 2x$

4. Does  $5x + 6 = 5x + 7$  have a solution? (1=Yes, 0=No)

9. Is  $x = 6$  a solution to  $6x = 2x + 10$ ? (1=Yes, 0=No)

5. Does  $2x + 15 = 2x + 18$  have a solution? (1=Yes, 0=No)

10. Does  $2x + 13$  have a solution?



# Algebra 1 – Unit 2 – What Are Solutions? (Hard) – Answer Key

1. Is  $x = 5$  a solution to  $7x = 2x + 7$ ? (1=Yes, 0=No)

$x = 0$

6. Find  $x$  if  $x + 13 = 20$

$x = 7$

2. Find  $x$  if  $x + 10 = 18$

$x = 8$

7. Does  $2x + 9 = 2x + 11$  have a solution?

$x = 0$

3. Is  $x = 7$  a solution to  $5x = 1x + 8$ ? (1=Yes, 0=No)

$x = 0$

8. Find  $x$  where  $4x + 9 = 2x$

$x = 2$

4. Does  $5x + 6 = 5x + 7$  have a solution? (1=Yes, 0=No)

$x = 0$

9. Is  $x = 6$  a solution to  $6x = 2x + 10$ ? (1=Yes, 0=No)

$x = 0$

5. Does  $2x + 15 = 2x + 18$  have a solution? (1=Yes, 0=No)

$x = 0$

10. Does  $2x + 12 = 2x + 13$  have a solution? (1=Yes, 0=No)

$x = 0$