



Name: _____

Date: _____

Algebra 1 – Unit 2 – What Are Solutions? (Challenge)

For each equation, write the number of solutions (zero, one, or infinite).

1. $5x + 3 = 5x + 3$

2. $4x + 14 = 4x + 14$

3. $8x + 12 = 8x + 19$

4. $5x + 14 = 5x + 14$

5. $4x + 10 = 4x + 20$

6. $5x + 5 = 5x + 5$

7. If $6x + k = 6x + 9$ has infinite solutions, find k

8. $6x + 11 = 6x + 11$



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

1. $5x + 3 = 5x + 3$

infinite

2. $4x + 14 = 4x + 14$

infinite

3. $8x + 12 = 8x + 19$

zero

4. $5x + 14 = 5x + 14$

infinite

5. $4x + 10 = 4x + 20$

zero

6. $5x + 5 = 5x + 5$

infinite

7. If $6x + k = 6x + 9$ has infinite solutions, find k

9

8. $6x + 11 = 6x + 11$

infinite