



Name: _____

Date: _____

What Are Solutions?

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

1. If $6x + k = 6x + 8$ has infinite solutions, find k
2. If $3x + 7 = 3x + k$ has no solution, k could be:

3. $7x + 8 = 7x + 8$
4. $3x + 13 = 3x + 21$

5. If $2x + k = 2x + 10$ has infinite solutions, find k
6. $5x + 15 = 5x + 15$

7. If $3x + 5 = 3x + k$ has no solution, k could be:
8. $8x + 2 = 4x + 15$



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What Are Solutions?

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

9. $4x + 15 = 4x + 15$

10. $4x + 3 = 4x + 3$



What Are Solutions? - Answer Key

1. If $6x + k = 6x + 8$ has infinite solutions, find k

8

2. If $3x + 7 = 3x + k$ has no solution, k could be:

12

3. $7x + 8 = 7x + 8$
infinite

4. $3x + 13 = 3x + 21$
zero

5. If $2x + k = 2x + 10$ has infinite solutions, find k

10

6. $5x + 15 = 5x + 15$
infinite

7. If $3x + 5 = 3x + k$ has no solution, k could be:

13

8. $8x + 2 = 4x + 15$
one



What Are Solutions? - Answer Key

9. $4x + 15 = 4x + 15$
infinite

10. $4x + 3 = 4x + 3$
infinite