Math Practice - Grade 8

M4 Solving linear equations - One solution, no solution, or infinitely many?

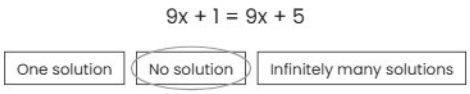
M4 8.EE.C.7, 8.EE.C.7a, 8.EE.C.7b

Name: _____ Date: _____

How many solutions does the equation have? Circle it.

Example: How many solutions does 9x + 1 = 9x + 5 have?

How: Simplify both sides. If you end with x equals a number, there is one solution. If you end with a true statement, with both sides the same, there are infinitely many solutions. If you end with a false statement, with both sides different, there is no solution.



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1 **How many solutions does 6x + 14 = 26 have?**

$$6x + 14 = 26$$

One solution | No solution | Infinitely many solutions

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2 **How many solutions does 4x + 10 = 4x + 10 have?**

$$4x + 10 = 4x + 10$$

One solution | No solution | Infinitely many solutions

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3 **How many solutions does 4x + 9 = 45 have?**

$$4x + 9 = 45$$

One solution | No solution | Infinitely many solutions

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Name: _____ Date: _____

How many solutions does the equation have? Circle it.

Example: How many solutions does 6x + 8 = 6x + 8 have?

How: Simplify both sides. If you end with x equals a number, there is one solution. If you end with a true statement, with both sides the same, there are infinitely many solutions. If you end with a false statement, with both sides different, there is no solution.

6x + 8 = 6x + 8

One solution | No solution | Infinitely many solutions

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1 **How many solutions does 8x + 12 = 8x + 12 have?**

$$8x + 12 = 8x + 12$$

One solution | No solution | Infinitely many solutions

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2 **How many solutions does 5x + 5 = 5x + 10 have?**

$$5x + 5 = 5x + 10$$

One solution | No solution | Infinitely many solutions

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3 **How many solutions does 5x + 6 = 21 have?**

$$5x + 6 = 21$$

One solution | No solution | Infinitely many solutions

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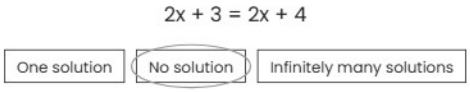
Name: _____ Date: _____

How many solutions does the equation have? Circle it.

Example: How many solutions does 2x + 3 = 2x + 4 have?

How: Simplify both sides. If you end with x equals a number, there is one solution. If you end with a true statement, with both sides the same, there are infinitely many solutions. If you end with a false statement, with both sides different, there is no solution.



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1 **How many solutions does 7x + 7 = 7x + 8 have?**

$$7x + 7 = 7x + 8$$

One solution | No solution | Infinitely many solutions

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2 **How many solutions does 7x + 6 = 7x + 6 have?**

$$7x + 6 = 7x + 6$$

One solution | No solution | Infinitely many solutions

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3 **How many solutions does 9x + 9 = 9x + 9 have?**

$$9x + 9 = 9x + 9$$

One solution | No solution | Infinitely many solutions