Math Practice - Grade 6

M9 Equations and inequalities - Test whether a number is a solution

M9 6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.B.8

Name: _____ Date: _____

Is the number a solution of the equation? Circle Yes or No.

Example: Is 9 a solution of x + 9 = 18? Circle Yes or No.

How: Put the number in place of the letter. If the two sides are equal, it is a solution. If they are not equal, it is not.

9 + 9 = 18 x + 9 = 18

(Yes) No

1 **Is 2 a solution of x + 8 = 10? Circle Yes or No.**

2 + 8 = 10 x + 8 = 10

Yes No

2 **Is 3 a solution of x + 12 = 14? Circle Yes or No.**

3 + 12 = 15 x + 12 = 14

Yes No

3 **Is 12 a solution of x + 6 = 18? Circle Yes or No.**

12 + 6 = 18 x + 6 = 18

Yes No

4 **Is 7 a solution of x + 4 = 11? Circle Yes or No.**

7 + 4 = 11 x + 4 = 11

Yes No

5 **Is 14 a solution of x + 9 = 21? Circle Yes or No.**

14 + 9 = 23 x + 9 = 21

Yes No

6 **Is 10 a solution of x + 7 = 17? Circle Yes or No.**

10 + 7 = 17 x + 7 = 17

Yes No

7 **Is 14 a solution of x + 5 = 16? Circle Yes or No.**

14 + 5 = 19 x + 5 = 16

Yes No

8 **Is 14 a solution of x + 10 = 21? Circle Yes or No.**

14 + 10 = 24 x + 10 = 21

Yes No

9 **Is 4 a solution of x + 1 = 5? Circle Yes or No.**

4 + 1 = 5 x + 1 = 5

Yes No

10 **Is 3 a solution of x + 1 = 4? Circle Yes or No.**

3 + 1 = 4 x + 1 = 4

Yes No

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Name: _____ Date: _____

Is the number a solution of the equation? Circle Yes or No.

Example: Is 9 a solution of x + 3 = 9? Circle Yes or No.

How: Put the number in place of the letter. If the two sides are equal, it is a solution. If they are not equal, it is not.

9 + 3 = 12 x + 3 = 9

Yes (No)

1 **Is 3 a solution of x + 4 = 6? Circle Yes or No.**

3 + 4 = 7 x + 4 = 6

Yes No

2 **Is 12 a solution of x + 11 = 22? Circle Yes or No.**

12 + 11 = 23 x + 11 = 22

Yes No

3 **Is 10 a solution of x + 9 = 19? Circle Yes or No.**

10 + 9 = 19 x + 9 = 19

Yes No

4 **Is 2 a solution of x + 3 = 5? Circle Yes or No.**

2 + 3 = 5 x + 3 = 5

Yes No

5 **Is 8 a solution of x + 6 = 14? Circle Yes or No.**

8 + 6 = 14 x + 6 = 14

Yes No

6 **Is 1 a solution of x + 1 = 2? Circle Yes or No.**

1 + 1 = 2 x + 1 = 2

Yes No

7 **Is 5 a solution of x + 7 = 12? Circle Yes or No.**

5 + 7 = 12 x + 7 = 12

Yes No

8 **Is 12 a solution of x + 11 = 23? Circle Yes or No.**

12 + 11 = 23 x + 11 = 23

Yes No

9 **Is 1 a solution of x + 11 = 12? Circle Yes or No.**

1 + 11 = 12 x + 11 = 12

Yes No

10 **Is 12 a solution of x + 9 = 21? Circle Yes or No.**

12 + 9 = 21 x + 9 = 21

Yes No

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Name: _____ Date: _____

Is the number a solution of the equation? Circle Yes or No.

Example: Is 7 a solution of x + 5 = 12? Circle Yes or No.

How: Put the number in place of the letter. If the two sides are equal, it is a solution. If they are not equal, it is not.

7 + 5 = 12 x + 5 = 12

(Yes) No

1 **Is 7 a solution of x + 7 = 11? Circle Yes or No.**

7 + 7 = 14 x + 7 = 11

Yes No

2 **Is 8 a solution of x + 6 = 14? Circle Yes or No.**

8 + 6 = 14 x + 6 = 14

Yes No

3 **Is 7 a solution of x + 3 = 10? Circle Yes or No.**

7 + 3 = 10 x + 3 = 10

Yes No

4 **Is 5 a solution of x + 2 = 7? Circle Yes or No.**

5 + 2 = 7 x + 2 = 7

Yes No

5 **Is 7 a solution of x + 5 = 11? Circle Yes or No.**

7 + 5 = 12 x + 5 = 11

Yes No

6 **Is 2 a solution of x + 6 = 7? Circle Yes or No.**

2 + 6 = 8 x + 6 = 7

Yes No

7 **Is 11 a solution of x + 9 = 18? Circle Yes or No.**

11 + 9 = 20 x + 9 = 18

Yes No

8 **Is 9 a solution of x + 1 = 10? Circle Yes or No.**

9 + 1 = 10 x + 1 = 10

Yes No

9 **Is 12 a solution of x + 9 = 21? Circle Yes or No.**

12 + 9 = 21 x + 9 = 21

Yes No

10 **Is 12 a solution of x + 5 = 16? Circle Yes or No.**

12 + 5 = 17 x + 5 = 16

Yes No