Math Practice - Grade 8

M4 Solving linear equations - Solve a linear equation

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

Name: _____ Date: _____

Solve the equation. Write the value of x in the box.

Example: Solve 2/5x + 7 = 11.

How: Undo the operations in reverse order, doing the same to both sides. Clear fractions by multiplying both sides by the denominator first.

$2/5x + 7 = 11, x =$ 10

1 **Solve 8x + 11 = 83.**

$8x + 11 = 83, x =$ ☐

2 **Solve 8x + 12 = 4x + 36.**

$8x + 12 = 4x + 36, x =$ ☐

3 **Solve 3x + 16 = 1x + 24.**

$3x + 16 = 1x + 24, x =$ ☐

4 **Solve 4/5x + 8 = 16.**

$4/5x + 8 = 16, x =$ ☐

5 **Solve 12x + 7 = 5x + 70.**

$12x + 7 = 5x + 70, x =$ ☐

6 **Solve 9x + 2 = 6x + 38.**

$9x + 2 = 6x + 38, x =$ ☐

7 **Solve 4/6x + 6 = 14.**

$4/6x + 6 = 14, x =$ ☐

8 **Solve 2/6x + 2 = 6.**

$2/6x + 2 = 6, x =$ ☐

9 **Solve 1/3x + 6 = 10.**

$1/3x + 6 = 10, x =$ ☐

10 **Solve 10x + 7 = 117.**

$10x + 7 = 117, x =$ ☐

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Solve the equation. Write the value of x in the box.

Example: Solve 9x + 4 = 6x + 31.

How: Undo the operations in reverse order, doing the same to both sides. Clear fractions by multiplying both sides by the denominator first.

9x + 4 = 6x + 31, x = 9

1 **Solve 6x + 8 = 32.**

6x + 8 = 32, x = ☐

2 **Solve 1/4x + 2 = 3.**

1/4x + 2 = 3, x = ☐

3 **Solve 9x + 19 = 64.**

9x + 19 = 64, x = ☐

4 **Solve 1/3x + 8 = 9.**

1/3x + 8 = 9, x = ☐

5 **Solve 5x + 7 = 2x + 25.**

5x + 7 = 2x + 25, x = ☐

6 **Solve 3/4x + 10 = 16.**

3/4x + 10 = 16, x = ☐

7 **Solve 5x + 9 = 69.**

5x + 9 = 69, x = ☐

8 **Solve 5x + 10 = 45.**

5x + 10 = 45, x = ☐

9 **Solve 5x + 3 = 18.**

5x + 3 = 18, x = ☐

10 **Solve 10x + 6 = 96.**

10x + 6 = 96, x = ☐

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Solve the equation. Write the value of x in the box.

Example: Solve 8x + 1 = 9.

How: Undo the operations in reverse order, doing the same to both sides. Clear fractions by multiplying both sides by the denominator first.

$8x + 1 = 9, x =$ 1

1 **Solve 12x + 19 = 79.**

$12x + 19 = 79, x =$ ☐

2 **Solve 8x + 7 = 2x + 13.**

$8x + 7 = 2x + 13, x =$ ☐

3 **Solve 2/3x + 5 = 9.**

$2/3x + 5 = 9, x =$ ☐

4 **Solve 10x + 11 = 21.**

$10x + 11 = 21, x =$ ☐

5 **Solve 4x + 7 = 11.**

$4x + 7 = 11, x =$ ☐

6 **Solve 6x + 11 = 17.**

$6x + 11 = 17, x =$ ☐

7 **Solve 5x + 5 = 2x + 26.**

$5x + 5 = 2x + 26, x =$ ☐

8 **Solve 11x + 1 = 56.**

$11x + 1 = 56, x =$ ☐

9 **Solve 10x + 13 = 23.**

$10x + 13 = 23, x =$ ☐

10 **Solve 12x + 20 = 2x + 70.**

$12x + 20 = 2x + 70, x =$ ☐