Math Practice - Grade 8

M4 Solving linear equations - Solve with the distributive property

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 5(x + 2) = 30.

How: Multiply the outside number by every term inside the parentheses first. Then collect like terms on each side before you isolate x.

$5(x + 2) = 30, x =$ 4

1 **Solve 7(x + 6) = 119.**

$7(x + 6) = 119, x =$ ☐

2 **Solve 8(x + 3) + 9 = 81.**

$8(x + 3) + 9 = 81, x =$ ☐

3 **Solve 8(x + 1) + 7 = 39.**

$8(x + 1) + 7 = 39, x =$ ☐

4 **Solve 6(x + 9) + 3 = 93.**

$6(x + 9) + 3 = 93, x =$ ☐

5 **Solve 8(x + 6) + 6 = 102.**

$8(x + 6) + 6 = 102, x =$ ☐

6 **Solve 7(x + 6) = 70.**

$7(x + 6) = 70, x =$ ☐

7 **Solve 5(x + 8) = 60.**

$5(x + 8) = 60, x =$ ☐

8 **Solve 2(x + 5) + 9 = 43.**

$2(x + 5) + 9 = 43, x =$ ☐

9 **Solve 3(x + 9) = 45.**

$3(x + 9) = 45, x =$ ☐

10 **Solve 6(x + 4) + 3 = 99.**

$6(x + 4) + 3 = 99, x =$ ☐

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

Example: Solve 3(x + 6) + 7 = 55.

How: Multiply the outside number by every term inside the parentheses first. Then collect like terms on each side before you isolate x.

3(x + 6) + 7 = 55, x = 10

1 **Solve 3(x + 1) + 8 = 17.**

3(x + 1) + 8 = 17, x = ☐

2 **Solve 8(x + 1) + 4 = 100.**

8(x + 1) + 4 = 100, x = ☐

3 **Solve 3(x + 7) = 39.**

3(x + 7) = 39, x = ☐

4 **Solve 6(x + 9) = 72.**

6(x + 9) = 72, x = ☐

5 **Solve 5(x + 7) + 8 = 68.**

5(x + 7) + 8 = 68, x = ☐

6 **Solve 9(x + 5) + 6 = 141.**

9(x + 5) + 6 = 141, x = ☐

7 **Solve 4(x + 3) = 48.**

4(x + 3) = 48, x = ☐

8 **Solve 4(x + 7) = 32.**

4(x + 7) = 32, x = ☐

9 **Solve 9(x + 5) = 90.**

9(x + 5) = 90, x = ☐

10 **Solve 7(x + 7) + 2 = 107.**

7(x + 7) + 2 = 107, x = ☐

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Name: _____ Date: _____

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

Example: Solve 3(x + 2) + 2 = 14.

How: Multiply the outside number by every term inside the parentheses first. Then collect like terms on each side before you isolate x.

$3(x + 2) + 2 = 14, x =$ 2

1 **Solve 5(x + 3) + 3 = 58.**

$5(x + 3) + 3 = 58, x =$ ☐

2 **Solve 9(x + 2) + 5 = 95.**

$9(x + 2) + 5 = 95, x =$ ☐

3 **Solve 3(x + 9) + 4 = 49.**

$3(x + 9) + 4 = 49, x =$ ☐

4 **Solve 4(x + 3) + 7 = 63.**

$4(x + 3) + 7 = 63, x =$ ☐

5 **Solve 9(x + 5) + 7 = 88.**

$9(x + 5) + 7 = 88, x =$ ☐

6 **Solve 7(x + 2) = 28.**

$7(x + 2) = 28, x =$ ☐

7 **Solve 4(x + 8) + 5 = 65.**

$4(x + 8) + 5 = 65, x =$ ☐

8 **Solve 6(x + 8) = 60.**

$6(x + 8) = 60, x =$ ☐

9 **Solve 5(x + 6) + 7 = 82.**

$5(x + 6) + 7 = 82, x =$ ☐

10 **Solve 3(x + 3) + 9 = 21.**

$3(x + 3) + 9 = 21, x =$ ☐