Math Practice - Grade 7

M6 Equations and inequalities - Solve p(x + q) = r

M6 7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b

Name: _____ Date: _____

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

Example: Solve 9(x + 9) = 171.

How: Divide both sides by p first to undo the parentheses, or expand first. Either way, p times (x + q) is not p times x plus q.

x = 10

1 **Solve 6(x + 9) = 120.**

x = ☐

2 **Solve 2(x + 9) = 20.**

x = ☐

3 **Solve 7(x + 2) = 98.**

x = ☐

4 **Solve 4(x + 6) = 36.**

x = ☐

5 **Solve 6(x + 5) = 66.**

x = ☐

6 **Solve 4(x + 7) = 36.**

x = ☐

7 **Solve 9(x + 7) = 144.**

x = ☐

8 **Solve 8(x + 7) = 72.**

x = ☐

9 **Solve 3(x + 4) = 21.**

x = ☐

10 **Solve 5(x + 3) = 75.**

x = ☐

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Name: _____ Date: _____

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

Example: Solve 7(x + 1) = 77.

How: Divide both sides by p first to undo the parentheses, or expand first. Either way, p times (x + q) is not p times x plus q.

x = 10

1 **Solve 7(x + 4) = 70.**

x = ☐

2 **Solve 4(x + 8) = 60.**

x = ☐

3 **Solve 5(x + 7) = 55.**

x = ☐

4 **Solve 6(x + 3) = 90.**

x = ☐

5 **Solve 6(x + 7) = 114.**

x = ☐

6 **Solve 4(x + 7) = 60.**

x = ☐

7 **Solve 7(x + 4) = 105.**

x = ☐

8 **Solve 2(x + 3) = 28.**

x = ☐

9 **Solve 3(x + 3) = 33.**

x = ☐

10 **Solve 3(x + 8) = 54.**

x = ☐

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Name: _____ Date: _____

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

Example: Solve 9(x + 9) = 126.

How: Divide both sides by p first to undo the parentheses, or expand first. Either way, p times (x + q) is not p times x plus q.

x = 5

1 **Solve 6(x + 1) = 72.**

x = ☐

2 **Solve 5(x + 2) = 15.**

x = ☐

3 **Solve 8(x + 5) = 80.**

x = ☐

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

x = ☐

5 **Solve 7(x + 4) = 91.**

x = ☐

6 **Solve 7(x + 3) = 91.**

x = ☐

7 **Solve 6(x + 4) = 42.**

x = ☐

8 **Solve 7(x + 1) = 28.**

x = ☐

9 **Solve 5(x + 6) = 55.**

x = ☐

10 **Solve 3(x + 8) = 27.**

x = ☐