Math Practice - Grade 7

M5 Equivalent expressions - Expand with the distributive property

M5 7.EE.1, 7.EE.2

Name: _____ Date: _____

Expand the expression. Write the answer in the box.

Example: Expand 0.75(16x + 12).

How: Multiply the number outside by every term inside the parentheses. Watch the sign: a negative outside factor changes the sign of every term inside.

12x + 9

1 **Expand 3/4(12x + 24).**

2 **Expand 0.75(20x + 24).**

3 **Expand 1/2(6y - 14).**

4 **Expand 1/2(10x - 16).**

5 **Expand -3(2x + 1).**

6 **Expand 0.75(36y - 32).**

7 **Expand 1/2(2x + 4).**

8 **Expand -4(3x + 1).**

9 **Expand -2(7y + 1).**

10 **Expand 2/3(27y + 21).**

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Expand the expression. Write the answer in the box.

Example: Expand 1/2(2y + 12).

How: Multiply the number outside by every term inside the parentheses. Watch the sign: a negative outside factor changes the sign of every term inside.

y + 6

1 **Expand -2(7y + 8).**

2 **Expand 0.25(20x - 24).**

3 **Expand -4(6y + 1).**

4 **Expand 0.5(2x + 4).**

5 **Expand -2(6x + 7).**

6 **Expand -3(9x - 9).**

7 **Expand -3(5y + 9).**

8 **Expand 2/4(28x - 28).**

9 **Expand 2/4(16y + 32).**

10 **Expand -4(5y + 4).**

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Name: _____ Date: _____

Expand the expression. Write the answer in the box.

Example: Expand -2(6x - 1).

How: Multiply the number outside by every term inside the parentheses. Watch the sign: a negative outside factor changes the sign of every term inside.

-12x + 2

1 **Expand 0.5(18y - 8).**

2 **Expand 2/4(16y + 12).**

3 **Expand 0.5(8y - 4).**

4 **Expand 0.75(28y - 24).**

5 **Expand 1/3(24y + 24).**

6 **Expand 1/2(18y - 8).**

7 **Expand -4(6x - 7).**

8 **Expand -3(6x + 2).**

9 **Expand 1/2(10y + 8).**

10 **Expand 2/3(12y - 6).**