Math Practice - Grade 7

M5 Equivalent expressions

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

Name: _____ Date: _____

Expand and factor linear expressions with rational coefficients. Combine the like terms. Rewrite a percent change as a single multiplier.

1 **Expand -3(2y + 9).**

2 **Factor 63x + 14.**

3 **Combine the like terms in the expression below.**

$2.5x + 0.5x + (-4.25) + 2.5 =$

4 **Rewrite a - 0.30a as a single term.**

5 **Expand -4(9x + 8).**

6 **Factor 30x - 15.**

7 **Combine the like terms in the expression below.**

$-0.75x + (-0.5)x + 2 + 1.75 =$

8 **Rewrite a + 0.50a as a single term.**

9 **Expand 1/2(14y - 10).**

10 **Factor 36x - 9.**

11 **Combine the like terms in the expression below.**

$0.25x + 1.25x + 3.5 + 2.25 =$

12 **Rewrite a - 0.40a as a single term.**

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M5 Equivalent expressions

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

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Expand and factor linear expressions with rational coefficients. Combine the like terms. Rewrite a percent change as a single multiplier.

1 **Expand 1/4(32x + 8).**

2 **Factor 16x + 16.**

3 **Combine the like terms in the expression below.**

$2x + 1x + (-4.75) + (-3.25) =$

4 **Rewrite a + 0.10a as a single term.**

5 **Expand 2/3(18x + 6).**

6 **Factor 18x - 6.**

7 **Combine the like terms in the expression below.**

$-2x + (-0.75)x + (-0.75) + 4.25 =$

8 **Rewrite a - 0.15a as a single term.**

9 **Expand -5(4y + 1).**

10 **Factor 9x - 27.**

11 **Combine the like terms in the expression below.**

$0.75x + (-0.25)x + (-1.5) + 3.75 =$

12 **Rewrite a - 0.30a as a single term.**

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Expand and factor linear expressions with rational coefficients. Combine the like terms. Rewrite a percent change as a single multiplier.

1 **Expand 0.25(12y + 32).**

2 **Factor 24x - 54.**

3 **Combine the like terms in the expression below.**

$2.5x + 1x + 0 + 0.25 =$

4 **Rewrite a + 0.40a as a single term.**

5 **Expand 0.25(20y + 4).**

6 **Factor 24x - 32.**

7 **Combine the like terms in the expression below.**

$1.75x + (-2.5)x + (-0.75) + (-5) =$

8 **Rewrite a + 0.30a as a single term.**

9 **Expand 0.25(16y + 8).**

10 **Factor 32x - 4.**

11 **Combine the like terms in the expression below.**

$2x + 1x + (-2.75) + (-1.25) =$

12 **Rewrite a + 0.25a as a single term.**