Math Practice - Grade 6

M8 Equivalent expressions

M8 6.EE.A.3, 6.EE.A.4

Name: _____ Date: _____

Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

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

$2\,(8 + y) =$ ☐

---

2 **Factor 27y + 12.**

$27y + 12 =$ ☐

---

3 **Combine the like terms in 5y + 1 + 4y.**

$5y + 1 + 4y =$ ☐

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4 **Work out both expressions when y = 4. Are 2 (6 + y) and 12 + 2y equivalent? Circle Yes or No.**

$2\,(6 + y) = 20$ $12 + 2y = 20$

Yes No

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Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

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

$5\ (9 + y) =$ ☐

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2 **Factor 45y + 15.**

$45y + 15 =$ ☐

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3 **Combine the like terms in 9x + 6 + 9x.**

$9x + 6 + 9x =$ ☐

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4 **Work out both expressions when y = 1. Are 2 (2 + y) and 4 + 2y equivalent? Circle Yes or No.**

$2\ (2 + y) = 6$ $4 + 2y = 6$

Yes No

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Name: _____ Date: _____

Expand with the distributive property. Factor out the common factor. Combine the like terms. Test whether the two expressions are equivalent.

1 **Expand 8 (9 + y).**

$8\ (9 + y) =$ ☐

---

2 **Factor 12y + 27.**

$12y + 27 =$ ☐

---

3 **Combine the like terms in 4y + 5 + 2y.**

$4y + 5 + 2y =$ ☐

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4 **Work out both expressions when x = 5. Are 4 (4 + x) and 16 + 4x equivalent? Circle Yes or No.**

$4\ (4 + x) = 36$ $16 + 4x = 36$

Yes No