

5.9 The Distributive Property

Chapter 5: Introduction to Algebra

Name: _____

Date: _____

Class/Period: _____

Problem 5.157 Expand $5(x + 2)$.

Problem 5.160 Expand $-4(2m - 5)$.

Problem 5.158 Expand $7(a - 4)$.

Problem 5.161 Simplify $2(x + 3) + 5x$.

Problem 5.159 Expand $-3(y + 6)$.

Problem 5.162 Simplify $6(2a - 1) - 3a$.

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Problem 5.163 Simplify $-2(3n + 4) + 7n$.

Problem 5.166 Factor $15y - 25$.

Problem 5.164 Simplify $4(x - 5) + 3(x + 2)$.

Problem 5.167 Factor $-6a - 18$ using a negative common factor.

Problem 5.165 Factor $8x + 20$.

Problem 5.168 Explain why $2(x + y)$ and $2x + y$ are not equivalent.

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Problem 5.169 A rectangle has height 7 and width $x + 4$. Write its area in factored and expanded form.

Problem 5.171 Find the missing term: $4(3x + \square) = 12x - 20$.

Problem 5.170 Simplify $5(2p - 3) - 2(3p + 4)$.

Problem 5.172 Create two different factored forms of $12x + 18$, one using the greatest common factor and one using another common factor.