Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CCM8

Distributive Property

Definitions

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| The Distributive Property |  |
| Numerical Examples |  |
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| Mental Math Examples |  |
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Simplify:

1. 2(5x + 3)
2. 3(3 – 7t)
3. ½(2m + 4)
4. (3x – 2)7

Negative coefficients:

1. -2(3x + 5y)
2. -10(7a – 2)
3. -(x + y)
4. -5(-y - 8)

Distributing and combining like terms:

1. 5(6 + x) + 3x
2. 2a – 5(a – 3)
3. 3(x + y) + 7(2x + 3y)
4. 11(2c + 7d) – 6(c + d) + 6

Special cases:

1. y(3 + z)
2. m(m + 12)
3. yz2 + y(z2 + 7)