

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Core: \_\_\_\_\_

Unit 3 – Notes: Expressions – The Distributive Property

|                                  |   |                                   |
|----------------------------------|---|-----------------------------------|
| <b>DISTRIBUTIVE<br/>PROPERTY</b> | The distributive property states that<br>$a(b + c) = \underline{\hspace{2cm}}$ or $a(b - c) = \underline{\hspace{2cm}}$ |                                   |
| <b>GUIDED<br/>EXAMPLES</b>       | <b>1</b> $4(x + 5)$   | <b>2</b> $6(12 - x)$              |
|                                  | <b>3</b> $-7(2x + 3)$   | <b>4</b> $-2(-4x - 11)$           |
|                                  | <b>5.</b> $\frac{1}{2}(-4x + 2)$  | <b>6.</b> $\frac{2}{3}(-9x - 12)$ |

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Expressions – The Distributive Property – Answer Key

|   |   |   |  |
|---|---|---|--|
| <b>DISTRIBUTIVE<br/>PROPERTY</b>            | The distributive property states that<br>$a(b + c) = \underline{ab + ac}$ or $a(b - c) = \underline{ab - ac}$ |   |  |
| <b>GUIDED<br/>EXAMPLES</b>                  | 1 $4(x + 5)$<br>$4x + 4 \cdot 5$<br>$\boxed{4x + 20}$   | 2 $6(12 - x)$<br>$6 \cdot 12 - 6x$<br>$\boxed{72 - 6x}$     |  |
|   | 3 $-7(2x + 3)$<br>$-7 \cdot 2x \quad -7(3)$<br>$\boxed{-14x - 21}$  | 4 $-2(-4x - 11)$<br>$-2(-4x) - 2(-11)$<br>$\boxed{8x + 22}$ |  |
| 13. $\frac{1}{2}(-4x + 2)$<br><br>$-2x + 1$ | 14. $\frac{3}{4}(12x - 4)$<br><br>$9x - 3$  | 15. $\frac{2}{3}(-9x - 12)$<br><br>$-6x - 8$                |  |