## Unit 4 Lesson 9: The Distributive Property, Part 1

### 1 Number Talk: Ways to Multiply (Warm up)

#### Student Task Statement

Find each product mentally.

$5⋅102$

$5⋅98$

$5⋅999$

### 2 Ways to Represent Area of a Rectangle

#### Student Task Statement

1. Select **all** the expressions that represent the area of the large, outer rectangle in figure A. Explain your reasoning.
	* $6+3+2$
	* $6⋅3+6⋅2$
	* $6⋅3+2$
	* $6⋅5$
	* $6\left(3+2\right)$
	* $6⋅3⋅2$
* 
1. Select **all** the expressions that represent the area of the shaded rectangle on the left side of figure B. Explain your reasoning.
	* $4⋅7+4⋅2$
	* $4⋅7⋅2$
	* $4⋅5$
	* $4⋅7−4⋅2$
	* $4\left(7−2\right)$
	* $4\left(7+2\right)$
	* $4⋅2−4⋅7$
* 

### 3 Distributive Practice

#### Student Task Statement

Complete the table. If you get stuck, skip an entry and come back to it, or consider drawing a diagram of two rectangles that share a side.

|   column 1   | column 2 | column 3 |   column 4   |   value   |
| --- | --- | --- | --- | --- |
| $5⋅98$ | $5\left(100−2\right)$ |     $5⋅100−5⋅2$     | $500−10$ | 490 |
| $33⋅12$ | $33\left(10+2\right)$ |  |  |  |
|  |  | $3⋅10−3⋅4$ | $30−12$ |  |
|  |     $100\left(0.04+0.06\right)$     |  |  |  |
|  |  | $8⋅\frac{1}{2}+8⋅\frac{1}{4}$ |  |  |
|  |  |  | $9+12$ |  |
|  |  |  | $24−16$ |  |



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