

Name \_\_\_\_\_ Reading Quiz 11

Let  $R$  be a commutative ring and  $I$  an ideal of  $R$ . When we write " $(I + a) \cdot (I + b) = I + a \cdot b$ " the multiplication symbol " $\cdot$ " is overloaded in that it means two different things in the two uses.

When we write " $(I + a) \cdot (I + b)$ ", what does " $\cdot$ " mean?

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