

Sec 4.4 – The Distributive Property**The Distributive Property**

If we have $a(b + c)$, we can write

We say that the **multiplication has been _____ over addition.**

Examples – Expand the following. Use an area model to justify the result.

1) $6(y - 3)$

2) $4(5 - m)$

3) $-2(x + 7)$

4) $-8(-n - 9)$

5) Kyle and 5 friends go The Zone to go bowling and hang out. Each person spends \$7 to bowl one game, including shoe rental, and \$4 each for drinks and snacks.

a) Write 2 different expressions to find the total cost of their evening out.

b) Evaluate each expression.

To think about:

Do you think the distributive property can be applied when there are 3 terms in the bracket, such as $2(a + b + c)$? Give an example to justify your answer.