What Is the Distributive Property?

The **Distributive Property** tells us how to multiply a number by a group of numbers inside parentheses:

$$a(b + c) = a \times b + a \times c$$

It means you **multiply the number outside** the parentheses by **each term inside** the parentheses.

Crawl - Watch and Learn - Example 1 (Fully Worked Out):

Simplify: $3(4 + 2)$

Step 1: Multiply 3 by 4 → $3 \times 4 = 12$
Step 2: Multiply 3 by 2 → $3 \times 2 = 6$
Step 3: Add them → $12 + 6 = 18$

Answer: $3(4 + 2) = 18$

Walk - Try It With Help- Example 2 (Guided Practice):

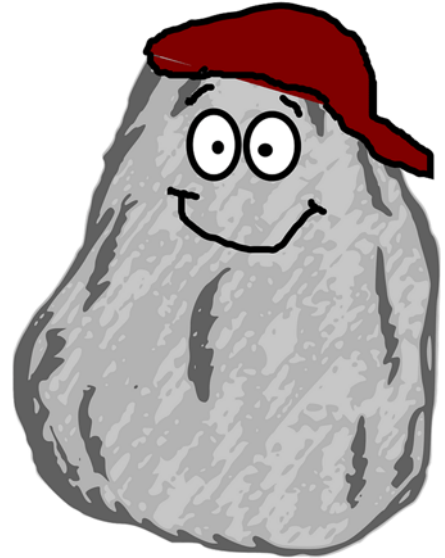Simplify: $5(3 + 7)$

Step 1: Multiply 5 by 3 → _____
Step 2: Multiply 5 by 7 → _____
Step 3: Add them → _____

Answer: $5(3 + 7) =$_____

Run – You Try It! - Simplify each expression using the **Distributive Property**.

1. $2(6 + 3) =$

2. $4(7 + 1) =$

3. $6(5 - 2) =$

4. $8(3 + 4) =$

5. $9(2 + 5) =$

6. $7(10 - 6) =$

7. $5(4 + 9) =$

8. $3(12 - 7) =$

9. $-2(6 + 1) =$

10. $0.5(8 + 6) =$