

# Expanding Brackets – Worksheet 1

Expand the brackets by multiplying each term inside.

**Instruction: Multiply the number outside the bracket with each term inside.**

1.  $2(y + 4)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $2 \times y =$  \_\_\_\_  
 Multiply:  $2 \times 4 =$  \_\_\_\_

Expanded Form:  $2 \times y + 2 \times 4$   
 Answer: \_\_\_\_\_

2.  $5(s + 3)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $5 \times s =$  \_\_\_\_  
 Multiply:  $5 \times 3 =$  \_\_\_\_

Expanded Form:  $5 \times s + 5 \times 3$   
 Answer: \_\_\_\_\_

3.  $7(b + 1)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $7 \times b =$  \_\_\_\_  
 Multiply:  $7 \times 1 =$  \_\_\_\_

Expanded Form:  $7 \times b + 7 \times 1$   
 Answer: \_\_\_\_\_

4.  $3(m + 4)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $3 \times m =$  \_\_\_\_  
 Multiply:  $3 \times 4 =$  \_\_\_\_

Expanded Form:  $3 \times \underline{\quad} + 3 \times \underline{\quad}$   
 Answer: \_\_\_\_\_

5.  $4(p + 2)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $4 \times p =$  \_\_\_\_  
 Multiply:  $4 \times 2 =$  \_\_\_\_

Expanded Form:  $4 \times \underline{\quad} + 4 \times \underline{\quad}$   
 Answer: \_\_\_\_\_

6.  $3(a + 5)$

Outside Number: \_\_\_\_  
 Inside Terms: \_\_\_\_ and \_\_\_\_  
 Multiply:  $3 \times a =$  \_\_\_\_  
 Multiply:  $3 \times 5 =$  \_\_\_\_

Expanded Form:  $3 \times \underline{\quad} + 3 \times \underline{\quad}$   
 Answer: \_\_\_\_\_

**Example:**  $2(x + 3)$

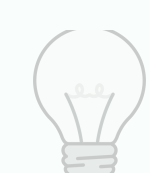
Step 1: Find the number outside the brackets = 2

Step 2: Find the terms inside the brackets = x and 3

Step 3:  
 Expanding brackets = Multiply each term inside the brackets, by the outside number

$$\begin{array}{l} \text{2} \curvearrowright \text{(x + 3)} \\ 2 \times x = 2x \\ 2 \times 3 = 6 \\ \text{Expanded Form: } 2 \times x + 2 \times 3 \end{array}$$

Step 4: Write the answer =  $2x + 6$



**Tip** Brackets mean: Multiply the outside number by each term inside the bracket.