Simplifying Expressions with Brackets – Worksheet 1

After expanding the brackets, collect like terms to simplify the expression.

Instruction: Expand the brackets, then collect like terms to simplify the expression.

1. **2 (w + 3) + w**

Expand the Brackets: (2 × w) + (2 × 3) + w
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

2. **4 (c + 1) + 3c**

Expand the Brackets: (4 × c) + (4 × 1) + 3c
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

3. **5 (t + 2) + 4t**

Expand the Brackets: (5 × t) + (5 × 2) + 4t
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

4. **3 (h + 4) + 2h**

Expand the Brackets: (3 × h) + (3 × 4) + 2h
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

5. **6 (k + 1) + k**

Expand the Brackets: (6 × k) + (6 × 1) + k
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

6. **2 (y + 7) + 5y**

Expand the Brackets: (2 × y) + (2 × 7) + 5y
_____ + _____ + _____

Find Like Terms: _____ and _____

Collect Like Terms: _____ + _____ + _____

Simplify the Expression: _____

Example: **–2 (x + 3) + x**

Step 1: Expand the brackets

-2 (x + 3) + x
(-2 x x) + (-2 x 3) + x
(-2x) + (-6) + x
-2x - 6 + x

Step 2: Find the Like Terms

-2x - 6 + x
(-2x and x are like terms)

Step 3: Collect the Like Terms

-2x + x - 6

Step 4: Simplify the Expression

-x - 6

Write the answer = **-x - 6**

Tip Expand the brackets first before collecting like terms.

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