

Multi-Step Equation Distributive Property Worksheet

Name: _____

Date: _____

Section A: Apply Distributive Property First

1. $3(x + 4) = 27$ (_____)

2. $2(y - 5) + 3 = 17$ (_____)

3. $-4(a + 6) = -40$ (_____)

4. $5(m - 2) - 3 = 27$ (_____)

5. $-2(x - 3) + 4 = 10$ (_____)

Section B: Combine Like Terms After Expanding

1. $2(x + 1) + 3(x - 2) = 16$ (_____)

2. $4(a - 2) - 2(a + 1) = 6$ (_____)

3. $-3(y + 4) + y = -8$ (_____)

4. $5(x - 1) + 2x = 32$ (_____)

5. $6(m + 2) - 4(m - 3) = 30$ (_____)

A number is multiplied by 3 and added to 4 times the number minus 6. The result is 46. What is the number?