

Worksheet: Double Brackets Squared

Expand and simplify each of the following expressions. Show all your working for full marks

1. Expand and simplify: $(x + 3)^2$
2. Expand and simplify: $(2x - 5)^2$
3. Expand and simplify: $(x + 4y)^2$
4. Expand and simplify: $(3a - 2b)^2$
5. Expand and simplify: $(x - 7)^2$
6. Expand and simplify: $(5m + 2n)^2$
7. Expand and simplify: $(2x + 3y)^2$
8. Expand and simplify: $(4p - 6q)^2$
9. Expand and simplify: $(x + y + 2)^2$
10. Expand and simplify: $(x - 2y + 5)^2$

Maths with Melissa

Answer Key

1. $(x + 3)^2 = x^2 + 6x + 9$

2. $(2x - 5)^2 = 4x^2 - 20x + 25$

3. $(x + 4y)^2 = x^2 + 8xy + 16y^2$

4. $(3a - 2b)^2 = 9a^2 - 12ab + 4b^2$

5. $(x - 7)^2 = x^2 - 14x + 49$

6. $(5m + 2n)^2 = 25m^2 + 20mn + 4n^2$

7. $(2x + 3y)^2 = 4x^2 + 12xy + 9y^2$

8. $(4p - 6q)^2 = 16p^2 - 48pq + 36q^2$

9. $(x + y + 2)^2 = x^2 + 2xy + 4x + y^2 + 4y + 4$

10. $(x - 2y + 5)^2 = x^2 - 4xy + 10x + 4y^2 - 20y + 25$