

Factorising Simple Algebraic Expressions

Name: _____

Date: _____

Instructions: Factorise each expression by taking out the highest common factor (HCF).

Example: $6x + 9 = 3(2x + 3)$

Part A: Basic Factorising

1. $4x + 8$ = _____

2. $6y + 12$ = _____

3. $15a + 20$ = _____

4. $9m - 18$ = _____

5. $14p - 21$ = _____

6. $10n + 25$ = _____

Part B: Factorising with Variables

7. $3x + 3y$ = _____

8. $5a - 5b$ = _____

9. $8m + 12n$ = _____

10. $6x - 9y$ = _____

11. $12p + 18q$ = _____

Part C: Factorising with Powers

12. $4x^2 + 8x$ = _____

13. $6y^2 - 9y$ = _____

14. $10a^2 + 15a$ = _____

15. $12m^2 - 18m$ = _____

Part D: Challenge Questions

16. $15x^2 + 10x + 5$ = _____

17. $12a^2b + 18ab$ = _____

18. $20xy - 15x$ = _____