Excellence

1. Factorise $6x + 15$.

2. Factorise $8a - 12$.

3. Factorise $14y + 21$.

4. Factorise $18m - 24$.

5. Factorise $9p + 12$.

6. Factorise $16b - 40$.

7. Factorise $5x + 10y$.

8. Factorise $12a + 18b$.

9. Factorise $15m - 20n$.

10. Factorise $21p + 14q$.

11. A student says $12x + 18 = 6(2x + 3)$.
Are they correct? Explain.

12. A student says $8a - 20 = 4(2$
Are they correct? Explain.

13. Fill in the blank: $\square(x + 4) = 7x + 28$

14. Fill in the blank: $9y - \square = 9(y - 2)$

15. Which is fully factorised: $3(2x + 4)$ or $6(x + 2)$? Explain.

16. Which does not belong: $4(x + 3)$, $4x + 12$, $2(2x + 6)$, $4(x + 2)$?

17. Write an expression that factorises to $5(a - 3)$.

18. Explain why expanding can be used to check a factorised answer.