

Excellence

1. Simplify $18 - 2 \times (3 + 4)$.

2. Simplify $6 + 24 \div 3 \times 2$.

3. Simplify $5(7 - 3) + 2^3$.

4. Simplify $(16 - 4) \div 3 + 5$.

5. Simplify $3^2 + 4 \times 5 - 6$.

6. Simplify $2(3 + 5) - 4 \div 2$.

7. When $x = 4$, simplify $3x + 2^2$.

8. When $p = 5$, simplify $2(p - 1) + 3$.

9. When $a = 3$ and $b = 2$, simplify $a^2 + b \times 4$.

10. When $m = 8$, simplify $m \div 2 + 3(m - 2)$.

11. A student says $2 + 6 \div 3 \times 4 = 10$. Are they correct? Explain.

12. A student says $3(4 + 2) - 5 = 13$. Are they correct? Explain.

13. A student says $5 + 2^3 \times 2 = 26$. Are they correct? Explain.

14. Which is greater: $4(3 + 2) - 6$ or $4 \times 3 + 2 - 6$? Show enough working.

15. Which is smaller: $18 \div (3 + 3)$ or $18 \div 3 + 3$? Explain.

16. Complete: if $x = 2$, then $4x + 3(x + 1) = \underline{\hspace{2cm}}$

17. Complete: if $y = 5$, then $2y^2 - 3y = \underline{\hspace{2cm}}$.

18. Write brackets so that $6 + 2 \times 5$ has value 40.