



Adding and Subtracting Expressions (Like Terms)

Mana Maths

Te reo Māori terms



taurangi tairite

like terms

Open in Te Aka

taurangi

variable

Open in Te Aka

tau whakarea

coefficient

Open in Te Aka

rūnā

simplify

Open in Te Aka

Foundation

1. Simplify $x + x$.
2. Simplify $y + y + y$.
3. Simplify $2a + a$.
4. Simplify $5b - b$.
5. Simplify $3c + 2c$.
6. Simplify $7d - 3d$.
7. Simplify $4m + m$.
8. Simplify $6n - 2n$.
9. Simplify $8p + p$.
10. Simplify $9q - 4q$.
11. Simplify $2r + 5r$.
12. Simplify $10s - s$.

- 13.** Simplify $3t + 4t$. **14.** Simplify $12u - 5u$. **15.** Simplify $5v + 2v$. **16.** Simplify $11w - 6w$.

Proficient

1. Simplify $3x + 5x$.

2. Simplify $9y - 4y$.

3. Simplify $7a + 2a - 3a$.

4. Simplify $10b - b - 2b$.

5. Simplify $4c + 6c + 3$.

6. Simplify $12d - 5d + 1$.

7. Simplify $8m + 2n$.

8. Simplify $5p + 3p + 4p$.

9. Simplify $14q - 6q + 2q$.

10. Simplify $6r + r - 4r$.

11. Which has like terms:
 $3x + 2y$ or $3x + 2x$?

12. Which cannot be simplified to one term: $4a + 5a$ or $4a + 5b$?

13. Fill in the blank: $3k + \square k = 8k$.

14. Fill in the blank: $9m - \square m = 1m$.

15. Is $2x + 5x = 7$ correct?

16. Is $6a - 2a = 4a$ correct?

17. Explain in one short sentence why $3p + 2q$ cannot become $5pq$.

18. Explain in one short sentence why $4t + t = 5t$.

Excellence

1. A student says $3x + 2x = 5x^2$. Are they correct? Explain.
2. A student says $7a - 3a = 4$. Are they correct? Explain.
3. Simplify $4x + 3y + 2x - y$.
4. Simplify $9m - 2n - 5m + n$.
5. Simplify $6p + 4 - p + 7$.
6. Simplify $12q - 3 + 2q + 8$.
7. Simplify $5r + 2s + 3r - s$.
8. Simplify $11t - 4t + 6 - 1$.
9. Fill in the blank: $\square x + 4x = 1$
10. Fill in the blank: $15y - \square y = 11y$.
11. Fill in the blank: $3a + 2b + \square = 10$.
12. Which is greater: $4x + 6x$ or $7x + 2x$?

13. Which does not belong: $2m + 3m$, $7m - 2m$, $4m + 5n$, $6m - m$?

14. Write two different expressions that both simplify to $8k$.

15. Write an expression with x and y terms that simplifies to $5x + 2y$.

16. Explain why $2a + 3b + a$ simplifies to $3a + 3b$.

17. Is $5c + 2 + 3c + 4$ equal to $8c + 6$? Explain briefly.

18. A perimeter is $3x + 2 + 4x +$
Simplify the expression.