



Forming expressions

Mana Maths

Te reo Māori terms



kīanga

expression

Open in Te Aka

taurangi

variable

Open in Te Aka

tau whakarea

coefficient

Open in Te Aka

whārite

equation

Open in Te Aka

Foundation

1. Write an expression for n plus 4.

2. Write an expression for x minus 7.

3. Write an expression for 3 times y .

4. Write an expression for m divided by 5.

5. Write an expression for a plus 10.

6. Write an expression for 2 times p .

7. Write an expression for q minus 3.

8. Write an expression for r divided by 2.

9. Write an expression for 8 more than b .

10. Write an expression for 6 less than c .

11. Write an expression for double k .

12. Write an expression for half of t .

13. Write an expression for z increased by 9.

14. Write an expression for w decreased by 1.

15. Write an expression for 4 multiplied by h .

16. Write an expression for j shared equally between 3 people.

Proficient

1. Write an expression for 5 more than x .
2. Write an expression for 4 less than y .
3. Write an expression for three times n plus 2.
4. Write an expression for 7 added to $2m$.
5. Write an expression for p divided by 4, then add 1.
6. Write an expression for the sum of a and b .
7. Write an expression for the difference between t and 6.
8. Write an expression for the product of 3 and q .
9. Write an expression for the quotient of r and 8.

10. Which expression matches "4 more than k ": ' $k + 4$ or $4k$ '?

11. Which expression matches "double s then subtract 5": ' $2s - 5$ or $2(s - 5)$ '?

12. Complete: 'if the variable is m , then " m plus 9" is _____.'

13. Complete: 'if the variable is x , then "3 times x " is _____.'

14. A student writes "5 less than p " as $5 - p$. Are they correct?

15. A student writes "4 times y " as $4 + y$. Are they correct?

16. Explain in one short sentence why $3x$ is usually written instead of $3 \times x$.

Excellence

1. Write an expression for 2 more than three times x .
2. Write an expression for 5 less than double y .
3. Write an expression for half of n plus 7.
4. Write an expression for 4 multiplied by the sum of p and 3.
5. Write an expression for one third of m minus 2.
6. Which is correct for "6 less than a ": $a - 6$ or $6 - a$? Explain.
7. Which is correct for "the sum of x and 5, then doubled": $2(x + 5)$ or $2x + 5$? Explain.
8. Which does not belong: $3x$, $x + x + x$, x^3 , $2x + x$?
9. Complete: a possible expression for "8 more than half of t " is _____.

- 10.** Complete: a possible expression for "triple k , then subtract 1" is _____.
- 11.** A student says $2a + 3$ means "double the sum of a and 3". Are they correct? Explain.
- 12.** A student says $4(n - 1)$ and $4n - 1$ mean the same thing. Are they correct? Explain.
- 13.** Write an expression for the perimeter of a rectangle with width w and length $w + 2$.
- 14.** Write an expression for the total cost of x pens at 3 dollars each and one book costing 5 dollars.
- 15.** Write an expression for the number of wheels on b bikes and s scooters if each has 2 wheels.
- 16.** Explain why an expression can have a value even when it is not an equation.