

Max's Algebraic Adventures: Year 6 Mastery

Learning objective: To understand and apply algebraic concepts including simple formula, missing numbers, and forming expressions.

Use these flashcards to test your knowledge of algebra. Read the front of the card, think of the answer, then check the back to see if Max the monkey agrees with your calculation!

What is a 'variable' in algebra?

A letter or symbol used to represent an unknown number.

If $a = 5$, what is the value of $3a + 2$?

17 ($3 \times 5 = 15$, then $15 + 2 = 17$).

Write an expression for: '4 more than x '.

$x + 4$.

Solve for y : $y + 12 = 20$.

$y = 8$.

Write an expression for: 'the product of 7 and b '.

$7b$.

What is the difference between an expression and an equation?

An expression has no equals sign; an equation shows two expressions are equal.

If $b = 10$, what is the value of $50 - 2b$?

30 ($2 \times 10 = 20$, then $50 - 20 = 30$).

Solve for m : $4m = 32$.

$m = 8$.

Write an expression for: 'half of n '.

$n/2$ or $0.5n$.

If $x = 3$ and $y = 4$, what is $x + y$?

7.

Max buys 3 apples at $\pounds p$ each. Write an expression for the total cost.

$3p$.

Solve for c : $c/3 = 9$.

$c = 27$.