

Substitution and Simplifying Expressions

Year 7 · Algebra · y7-alg-substitute

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. If $a = -3$, what is the value of $a + 8$?

2. Simplify: $3x + 2x$.

3. If $x = -2$, what is the value of $5x$?

4. Reduce to its simplest form: $4x + 3y - x + 2y$.

5. If $p = 4$, what is the value of $3p + 7$?

6. The cost of hiring a bike is $C = 5h$, where h is hours. Which value do you substitute for h to find the cost of a 3-hour hire?

7. Substitute a negative value in brackets to keep the sign correct: if $a = -3$, what is $2a$?

8. Only terms with the same letter (and power) can be combined. Simplify: $5a + 3b - 2a$.

Challenge

1. If $a = -2$ and $b = 5$, what is the value of $3a + 2b$?

2. Simplify fully: $5x^2 + 3x - 2x^2 + x$.
