

# Substitution

Lesson 7

# Substitution

- Symbols or letters are sometimes used as replacements for numbers in an expression.
- To calculate the value of the expression, we substitute numbers for the symbols or letters and solve each using the rules for order of operations (BEDMAS).

## Example:

Evaluate expression below if:

$$\blacksquare = 5 \text{ and } \blacklozenge = 2$$

$$3 \times \blacksquare - 4 \times \blacklozenge$$

$$3 \times 5 - 4 \times 2$$

$$15 - 8 = \boxed{7}$$

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## Example:

Evaluate expression below if:

$$a = 5 \text{ and } b = 2$$

$$5ab + 4a - 10$$

$$5 \bullet 3 \bullet 2 + 4 \bullet 3 - 10$$

$$30 + 12 - 10 = \boxed{32}$$

$$\square \times \diamond - 16, \quad \text{if } \square = 3 \text{ and} \\ \diamond = 7$$

$$\frac{2 \times \blacksquare - 3 \times \blacklozenge}{\blacksquare - (\blacklozenge + 2)} \quad , \text{ if } \blacksquare = 8 \text{ and } \blacklozenge = 7$$

$$m - (m - 4) - m, \text{ if } m = 4$$