Translating Algebraic Expressions

Eight less than a number, squared

$(x-8)^2$

Matching Game

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Matching Game

Student goal: Translate between verbal models and algebraic expressions.

How to play: Print and cut out cards. Students work to match the algebraic model with the verbal expression and vice versa. Students compete in pairs or groups of 4.

Advanced: The pink cards are more difficult.

Have Fun!

Three more than a number

$x + 3$

A number added to three

$3 + x$

Three decreased by a number

$3 - x$

The difference between a number and three

$x - 3$

Thrice a number

$3x$

A third of a number

$\frac{x}{3}$

A number, raised to the 3rd power

x^3

The quotient of three and a number

$\frac{3}{x}$

Eight less than the square of a number

$x^2 - 8$

Eight less than a number, squared

$(x - 8)^2$

The square of the sum of a number and eight

$(x + 8)^2$

Eight more than a number squared

$x^2 + 8$

Twice the quantity of eight more than a number

$2(x + 8)$

Twice the difference of eight and a number

$2(8 - x)$

Double the product of eight and a number

$2(8x)$

Two times the quotient of a number and eight

$\frac{2x}{8}$

The sum of two consecutive integers

$x+(x+1)$

The sum of two consecutive odd integers

$x+(x+2)$

The quantity of eight more than a number, squared, doubled

$(x+8)^2 \cdot 2$

Double a number plus eight, quantity squared

$(2x+8)^2$

Answer Key

Three more than a number	$x + 3$
A number added to three	$3 + x$
Three decreased by a number	$3 - x$
The difference between a number and three	$x - 3$

Thrice a number	$3x$
A third of a number	$\frac{x}{3}$
A number raised to the 3rd power	x^3
The quotient of three and a number	$\frac{3}{x}$

Eight less than the square of a number	$x^2 - 8$
Eight less than a number, squared	$(x - 8)^2$
The square of the sum of a number and eight	$(x + 8)^2$
Eight more than a number squared	$x^2 + 8$

Twice the quantity of eight more than a number	$2(x + 8)$
Twice the difference of eight and a number	$2(8 - x)$
Double the product of eight and a number	$2(8x)$
Two times the quotient of a number and eight	$\frac{2x}{8}$

The sum of two consecutive integers	$x + (x + 1)$
The sum of two consecutive odd integers	$x + (x + 2)$
The quantity of eight more than a number, squared, doubled	$(x + 8)^2 \cdot 2$
Double a number plus eight, quantity squared	$(2x + 8)^2$

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