



## UNDERSTANDING ALGEBRA

### WORDS INTO LONGER EXPRESSIONS

Ref: G211. **3E3**

<b>A1</b> Write an algebraic expression for: add $b$ to $x$ , then multiply the result by $a$	<b>A2</b> Write an algebraic expression for: multiply $x$ and $a$ , then add $b$	<b>A3</b> Write an algebraic expression for: take $x$ from $b$ , then multiply the result by $a$	<b>A4</b> Write an algebraic expression for: multiply $a$ and $b$ , then take the result from $x$
<b>B1</b> Write an algebraic expression for: take $a$ from $x$ , then divide the result by $b$	<b>B2</b> Write an algebraic expression for: subtract $x$ from the result of $b$ divided by $a$	<b>B3</b> Write an algebraic expression for: add $a$ and $b$ , then divide the result by $x$	<b>B4</b> Write an algebraic expression for: divide $a$ by $x$ , then, take the result from $b$
<b>C1</b> Write an algebraic expression for: $x$ minus $a$ , all-squared	<b>C2</b> Write an algebraic expression for: $a$ minus $x$ -squared	<b>C3</b> Write an algebraic expression for: take the product of $a$ and $b$ from the square of $x$	<b>C4</b> Write an algebraic expression for: the product of $a$ and $x$ -squared
<b>D1</b> Write an algebraic expression for: $c$ added to the product of $a$ and $b$	<b>D2</b> Write an algebraic expression for: $b$ divided by the sum of $a$ and $c$	<b>D3</b> Write an algebraic expression for: the square of $a$ taken from the square of $b$	<b>D4</b> Write an algebraic expression for: the sum of $a$ , $b$ and $c$ , all-squared
<b>E1</b> Write <b>two</b> possible expressions for: the product of $a$ and $b$ subtracted from $c$	<b>E2</b> Write <b>four</b> possible expressions for: $a$ minus $x$ divided by $b$ minus $x$	<b>E3</b> Write <b>two</b> possible expressions for: the product of $a$ and $b$ minus the sum of $a$ and $b$	<b>E4</b> Write <b>three</b> possible expressions for: the square of the sum of $a$ and $b$ taken from $b$ -squared



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<b>A1</b> Write an algebraic expression for: add $b$ to $x$ , then multiply the result by $a$ $a(x + b)$	<b>A2</b> Write an algebraic expression for: multiply $x$ and $a$ , then add $b$ $ax + b$	<b>A3</b> Write an algebraic expression for: take $x$ from $b$ , then multiply the result by $a$ $a(b - x)$	<b>A4</b> Write an algebraic expression for: multiply $a$ and $b$ , then take the result from $x$ $x - ab$
<b>B1</b> Write an algebraic expression for: take $a$ from $x$ , then divide the result by $b$ $\frac{x - a}{b}$	<b>B2</b> Write an algebraic expression for: subtract $x$ from the result of $b$ divided by $a$ $\frac{b}{a} - x$	<b>B3</b> Write an algebraic expression for: add $a$ and $b$ , then divide the result by $x$ $\frac{a + b}{x}$	<b>B4</b> Write an algebraic expression for: divide $a$ by $x$ , then, take the result from $b$ $b - \frac{a}{x}$
<b>C1</b> Write an algebraic expression for: $x$ minus $a$ , all-squared $(x - a)^2$	<b>C2</b> Write an algebraic expression for: $a$ minus $x$ -squared $a - x^2$	<b>C3</b> Write an algebraic expression for: take the product of $a$ and $b$ from the square of $x$ $x^2 - ab$	<b>C4</b> Write an algebraic expression for: the product of $a$ and $x$ -squared $ax^2$
<b>D1</b> Write an algebraic expression for: $c$ added to the product of $a$ and $b$ $ab + c$	<b>D2</b> Write an algebraic expression for: $b$ divided by the sum of $a$ and $c$ $\frac{b}{a + c}$	<b>D3</b> Write an algebraic expression for: the square of $a$ taken from the square of $b$ $b^2 - a^2$	<b>D4</b> Write an algebraic expression for: the sum of $a$ , $b$ and $c$ all-squared $(a + b + c)^2$
<b>E1</b> the product of $a$ and $b$ subtracted from $c$ $c - ab$ $a(c - b)$	<b>E2</b> $a$ minus $x$ divided by $b$ minus $x$ $\frac{a - x}{b - x}$ $a - \frac{x}{b} - x$ $\frac{a - x}{b - x}$ $a - \frac{x}{b - x}$ $\frac{a - x}{b} - x$	<b>E3</b> the product of $a$ and $b$ minus the sum of $a$ and $b$ $ab - (a + b)$ $a[b - (a + b)]$	<b>E4</b> the square of the sum of $a$ and $b$ taken from $b$ -squared $b^2 - (a + b)^2$ $[a + (b^2 - b)]^2$ $[b^2 - (a + b)]^2$