



## UNDERSTANDING ALGEBRA

### WORDS INTO LONGER EXPRESSIONS

Ref: G211. **3F3**

<b>A1</b> Write an algebraic expression for: multiply $x$ by two, then add six	<b>A2</b> Write an algebraic expression for: add six to $x$ , then multiply by two	<b>A3</b> Write an algebraic expression for: multiply $x$ by four, then subtract five	<b>A4</b> Write an algebraic expression for: subtract five from $x$ , then multiply by four
<b>B1</b> Write an algebraic expression for: subtract three from $x$ , then divide by five	<b>B2</b> Write an algebraic expression for: divide $x$ by five, then subtract three	<b>B3</b> Write an algebraic expression for: divide $x$ by three, then add seven	<b>B4</b> Write an algebraic expression for: add seven to $x$ , then divide by three
<b>C1</b> Write an algebraic expression for: $x$ is squared, then four is added	<b>C2</b> Write an algebraic expression for: four is added to $x$ , then the result is squared	<b>C3</b> Write an algebraic expression for: $x$ is squared, then eight is subtracted	<b>C4</b> Write an algebraic expression for: eight is taken from $x$ , then the result is squared
<b>D1</b> Write an algebraic expression for: $x$ add two, then multiply by nine	<b>D2</b> Write an algebraic expression for: $x$ divided by two, then add nine	<b>D3</b> Write an algebraic expression for: $x$ add two, then divide by nine	<b>D4</b> Write an algebraic expression for: nine divided by $x$ , then add two
<b>E1</b> Write an algebraic expression for: $x$ squared multiplied by three	<b>E2</b> Write an algebraic expression for: $x$ multiplied by three, all-squared	<b>E3</b> Write an algebraic expression for: $x$ squared divided by four	<b>E4</b> Write an algebraic expression for: $x$ divided by four, all-squared



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<p><b>A1</b> Write an algebraic expression for: multiply <math>x</math> by two, then add six</p> $2x + 6$	<p><b>A2</b> Write an algebraic expression for: add six to <math>x</math>, then multiply by two</p> $2(x + 6)$	<p><b>A3</b> Write an algebraic expression for: multiply <math>x</math> by four, then subtract five</p> $4x - 5$	<p><b>A4</b> Write an algebraic expression for: subtract five from <math>x</math>, then multiply by four</p> $4(x - 5)$
<p><b>B1</b> Write an algebraic expression for: subtract three from <math>x</math>, then divide by five</p> $\frac{x - 3}{5}$	<p><b>B2</b> Write an algebraic expression for: divide <math>x</math> by five, then subtract three</p> $\frac{x}{5} - 3$	<p><b>B3</b> Write an algebraic expression for: divide <math>x</math> by three, then add seven</p> $\frac{x}{3} + 7$	<p><b>B4</b> Write an algebraic expression for: add seven to <math>x</math>, then divide by three</p> $\frac{x + 7}{3}$
<p><b>C1</b> Write an algebraic expression for: <math>x</math> is squared, then four is added</p> $x^2 + 4$	<p><b>C2</b> Write an algebraic expression for: four is added to <math>x</math>, then the result is squared</p> $(x + 4)^2$	<p><b>C3</b> Write an algebraic expression for: <math>x</math> is squared, then eight is subtracted</p> $x^2 - 8$	<p><b>C4</b> Write an algebraic expression for: eight is taken from <math>x</math>, then the result is squared</p> $(x - 8)^2$
<p><b>D1</b> Write an algebraic expression for: <math>x</math> add two, then multiply by nine</p> $9(x + 2)$	<p><b>D2</b> Write an algebraic expression for: <math>x</math> divided by two, then add nine</p> $\frac{x}{2} + 9$	<p><b>D3</b> Write an algebraic expression for: <math>x</math> add two, then divide by nine</p> $\frac{x + 2}{9}$	<p><b>D4</b> Write an algebraic expression for: nine divided by <math>x</math>, then add two</p> $\frac{9}{x} + 2$
<p><b>E1</b> Write an algebraic expression for: <math>x</math> squared multiplied by three</p> $3x^2$	<p><b>E2</b> Write an algebraic expression for: <math>x</math> multiplied by three, all-squared</p> $(3x)^2$	<p><b>E3</b> Write an algebraic expression for: <math>x</math> squared divided by four</p> $\frac{x^2}{4}$	<p><b>E4</b> Write an algebraic expression for: <math>x</math> divided by four, all-squared</p> $\left(\frac{x}{4}\right)^2$