To solve expressions that have many operations, use the order of operations. The order of operations can be remembered by the acronym **BEDMAS**.

В	Brackets	
E	Exponents	
D	Division	Do these in order from left to
М	Multiplication	right.
Α	Addition	Do these in order from left to
S	Subtraction	right.

The order of operations will help you remember the order in which to do the mathematical calculations.

Example

Calculate $(-3)^2 \times 1.4 + 3.5 - 3.1$ using the order of operations.

Solution

Apply BEDMAS to evaluate the expression.

Step 1

There are no brackets. Evaluate the exponent.

$$= (-3)^2 \times 1.4 + 3.5 - 3.1$$
$$= 9 \times 1.4 + 3.5 - 3.1$$

Step 2

Complete the multiplication and division in the order that it appears from left to right.

$$= 9 \times 1.4 + 3.5 - 3.1$$

= $12.6 + 3.5 - 3.1$

Step 3

Complete the addition and subtraction in the order that it appears from left to right.

$$= 12.6 + 3.5 - 3.1$$
$$= 16.1 - 3.1$$
$$= 13$$

Therefore: $(-3)^2 \times 1.4 + 3.5 - 3.1 = 13$