

## ORDER OF OPERATIONS

When calculating expressions, we follow the order of operations.

### Order of Operations

1. Simplify the brackets.
2. Then simplify powers.
3. Multiply and Divide.
4. Then Add and Subtract.

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**B** – Brackets  
**E** – Exponents (powers)  
**D** – Division  
**M** – Multiplication  
**A** – Addition  
**S** – Subtraction

### Example 1

Simplify  
 $-3(2 - 4) - (-2 + 4)$

### Example 2

Simplify  
 $(-2)(4) + (-3)^2$

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### Examples

a) Is  $3 + 6 \times 2 - 8$  equal to 7 or 10?

Use BEDMAS to help you find the answer.

b) How do you evaluate  $\frac{11+7}{9-3}$ ?

### SIMPLIFY – USE THE ORDER OF OPERATIONS

a)  $5 - (3 - 4)$

b)  $(-3 - 2)^2 - (2 + 4)^2$

c)  $(4 - 3) + 2(3 - 4)$

d)  $2(-3)^2 - 4(-2)$

e)  $5 + 12 \times 8 + 30 \div 6 + 8 - 5$

f)  $-(3 - 5) \times (2 - 4)$

g)  $(4 - 2)^2 \times 6 \div 8$

h)  $\sqrt{3(18 - 6)}$

i)  $4 + [6 - (9 - 4)]$

j)  $3(-2 + 4)^3 - 2(-4 + 1)^2$