✳ 1.1. Order of operations

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Which operations would you use to find the answer to this question?

$18 - 6 \div 3 = ?$

We use brackets if we want certain operations carried out first.
To make sure everyone gets the same answer when evaluating an expression, we use this order of operations:

* Do the operations in brackets.
* Multiply and divide, in order, from left to right.
* Then add and subtract, in order, from left to right.

✎ Evaluate: $16 - 14 \div 2$

$16 - (14 \div 2)$

$= 16 - 7$

$= 9$

| Divide first: $14 \div 2 = 7$ |
| Then subtract: $16 - 7 = 9$ |

✎ Evaluate: $7 \times (4 + 8)$

$= 7 \times 12$

$= 84$

| Do the operation in brackets first: $4 + 8 = 12$ |
| Then multiply: $7 \times 12 = 84$ |

| The order of operations is:
Brackets
Multiply and **D**ivide
Add and **S**ubtract |

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