

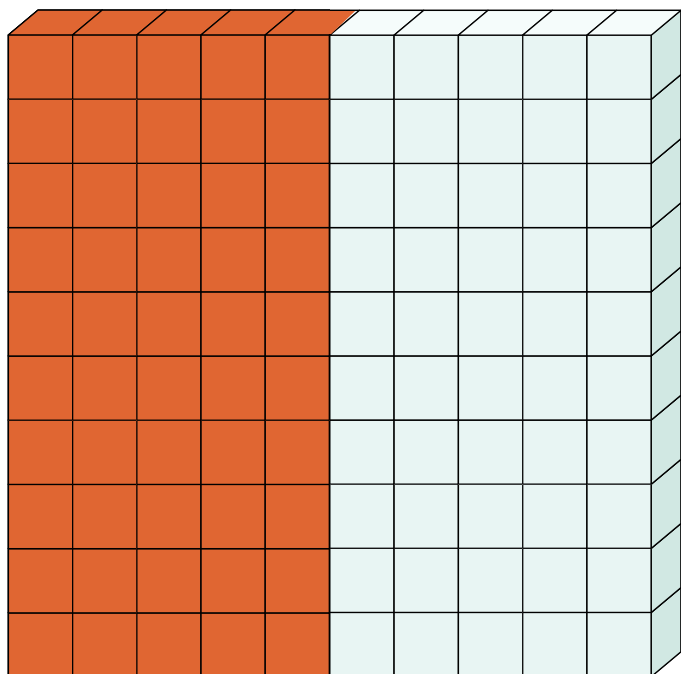
Ratio

Proportion

Percentage

Ratio

Describes the relationship of two or more quantities



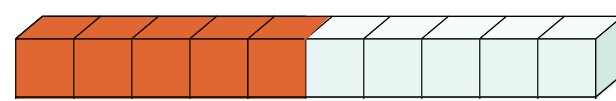
The ratio of the blocks in orange to the total number of blocks is

50:100

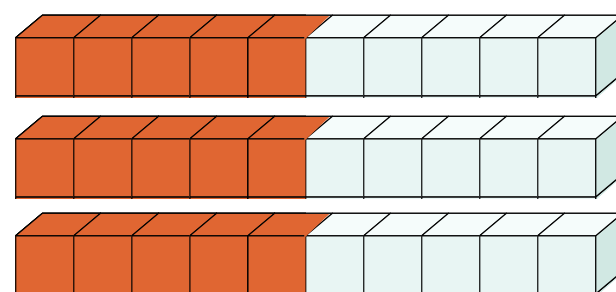
↑ ↑
blocks in orange blocks in total

Proportion

Refers to two equal ratios



5:10



15:30

Proportion Check:
The product of the inner and outer terms should be the same.

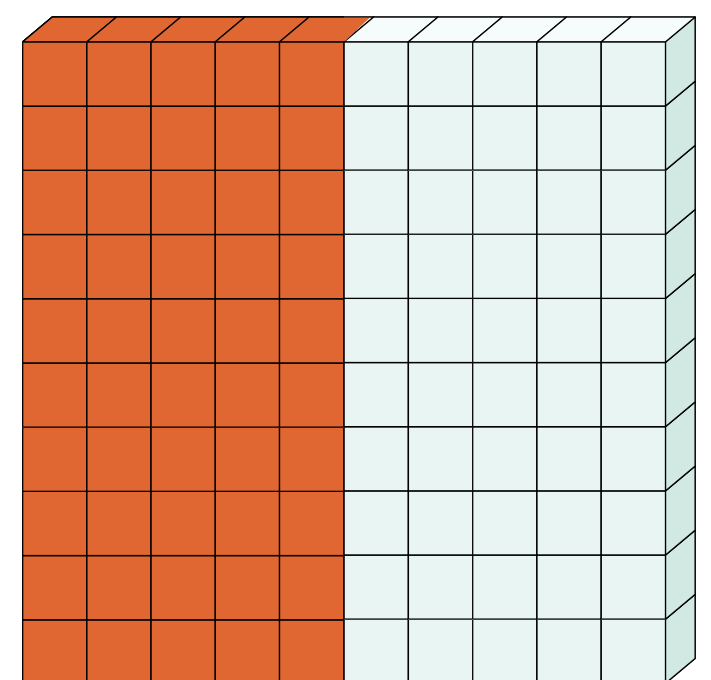
$$\begin{array}{c}
 10 \times 15 = 150 \\
 \swarrow \quad \searrow \\
 \text{5:10} = \text{15:30} \\
 \swarrow \quad \searrow \\
 5 \times 30 = 150
 \end{array}$$

There are 5 orange blocks for each set of 10 blocks.

If there are 15 orange blocks, then there must be 30 blocks in all.

Percentage

Percent literally means 'per hundred.' It describes a part to a whole in terms of hundreds.



There are 50 orange blocks out of 100 blocks.

50%

of the blocks are red.