

Stage 8 – Number: Proportional Reasoning

Know it!



Knowledge	
I know...	How to find a relevant multiplier in a situation involving proportion.
I know...	How to solve problems involving ratio in a real life context e.g. by sharing and scaling.
I know...	How to relate ratios to fractions.
I know...	How to solve problems involving speed, and converting measures of speed.
I know...	How to solve problems involving rates of pay and unit pricing.

Link it!



Backward	Forward
Ratio notation. Divide an amount in a ratio. Converting units of measure. Fractions.	Graphs of direct proportion. Variety of ratio problems.

Prove it!



Convince me that that this information shows a proportional relationship.

Which is the faster speed: 60km/h or 10m/s?
Explain why.

6	9
10	15
14	21

Say it!



Vocabulary	Definition
Ratio	A ratio shows the relative sizes of two or more values.
Proportion	Proportion says that two ratios (or fractions) are equal.
Multiplier	The number that you are multiplying by.
Speed	How fast something is moving. Measured as distance travelled per unit of time.
Units	A quantity used as a standard of measurement.
Compound unit	Measurements that require two different types of unit.
Unitary Method	A technique for solving a problem by first finding the value of a single unit, and then finding the necessary value by multiplying the single unit value