

# Stage 11 - Proportional reasoning

## KEYWORDS

### WHAT DO WE ALREADY *know?*

- Recognise a graph that illustrates direct or inverse proportion.
- Interpret equations that describe direct or inverse proportion .
- Understand that X is inversely proportional to Y is equivalent to X is proportional to  $\frac{1}{Y}$
- Solve problems which include finding the multiplier in a situation involving direct or inverse proportion

## THE BIG PICTURE

- Set up, solve and interpret problems involving direct and inverse proportion, including graphical and algebraic representations

- Direct proportion from Latin proportionem "comparative relation, analogy," from phrase proportione "according to the relation" (of parts to each other)
- Inverse proportion
- Multiplier

### Proportional reasoning - Targets

	Before Topic	After Topic	Teacher Mark
Construct and use simple equations describing direct proportion			
Construct and use more complex equations describing direct proportion			
Construct and use simple equations describing inverse proportion			
Construct and use more complex equations describing inverse proportion			
Solve problems involving direct and inverse proportion			