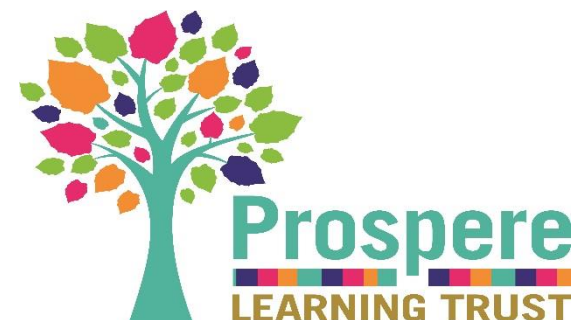


Mathematics



Solutions
<u>Maths</u>
<u>Ratio and Scale</u>
<ul style="list-style-type: none">• Simplifying a ratio (Hegarty Clip no. 329)• Sharing an amount into a ratio (Hegarty Clip no. 332, Hegarty Clip no. 333 and Hegarty Clip no. 334)• Solving ratio problems given a part (Hegarty Clip no. 334)
<u>Multiplicative Change</u>
<ul style="list-style-type: none">• Solving problems and explain direct proportion (Hegarty Clip no. 339, Hegarty Clip no. 340 and Hegarty Clip no. 341)• Using conversion graphs to make statements, comparisons and form conclusions (Hegarty Clip no. 712 and Hegarty Clip no. 713)• Understanding and use scale factors and length (Hegarty Clip no. 864, Hegarty Clip no. 865, Hegarty Clip no. 866, Hegarty Clip no. 867 and Hegarty Clip no. 868)
<u>Multiplying and dividing fractions</u>
<ul style="list-style-type: none">• Multiplying a fraction by an integer clip (Hegarty Clip no. 68 and Hegarty Clip no. 69)• Multiplying a fraction by a fraction clip (Hegarty Clip no. 68 and Hegarty Clip no. 69)• Dividing an integer by a fraction clip (Hegarty Clip no.70)• Dividing a fraction by a fraction clip (Hegarty Clip no.70)
<u>Working in the Cartesian plane</u>
<ul style="list-style-type: none">• Labelling and identifying lines parallel to the x and y axis (Hegarty Clip no. 205)• Identifying positive and negative gradients (Hegarty Clip no. 205)• Linking linear graphs to sequences (Hegarty Clip no.206)• Plotting $y = mx + c$ graphs (Hegarty Clip no. 207)
<u>Representing Data</u>
<ul style="list-style-type: none">• Drawing and interpreting scattergraphs (Hegarty Clip no. 453 and Hegarty Clip no. 454)• Describing correlation and relationships (Hegarty Clip no. 453 and Hegarty Clip no. 454)

- Designing and completing and ungrouped frequency table ([Hegarty Clip no. 414](#), [Hegarty Clip no. 415](#), [Hegarty Clip no. 416](#) and [Hegarty Clip no. 417](#))
- Reading and interpreting grouped tables ([Hegarty Clip no. 402](#))
- Representing data in two way tables ([Hegarty Clip no. 422](#), [Hegarty Clip no. 423](#) and [Hegarty Clip no. 424](#))

Tables and Probability

- Constructing a sample space diagram ([Hegarty Clip no. 351](#) and [Hegarty Clip no. 352](#))
- Systematically listing outcomes
- Finding a probability from two way tables ([Hegarty Clip no. 423](#))
- Finding a probability from Venn diagrams ([Hegarty Clip no. 383](#))

Brackets, Equations and Inequalities

- Forming expressions ([Hegarty Clip no. 176](#))
- Expanding single brackets ([Hegarty Clip no. 160](#))
- Factorising single brackets ([Hegarty Clip no. 168](#) and [Hegarty Clip no. 169](#))
- Forming and solving equations ([Hegarty Clip no. 453](#) and [Hegarty Clip no. 454](#))
- Solving equations with brackets ([Hegarty Clip no. 176](#))
- Forming and solving inequalities ([Hegarty Clip no. 269](#))

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