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| **Title of unit:** | Ratio and proportion |
| **Overview of unit:** | Simplifying ratio  Dividing into a ratio  Best buys  Recipes  Exchange rates  Direct and inverse proportion |
| **Cross-curricular/ extra-curricular links:** | Art/Design – mixing paint as a ratio; the Golden Ratio  MFL – exchange rates |
| **Literacy/ numeracy links:** | Keywords:  Ratio, proportion, simplify, divide, direct, inverse |

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| **Grade:** | **Learning objective:** | **Resources:** |
| **1** | Simplify ratios. | [Simplifying ratio](https://www.piximaths.co.uk/simplifying-ratios) |
| **2** | Solve ratio problems using the unitary method.  Solve problems involving recipes.  Calculate the best value of a product. | [Best buys](https://www.piximaths.co.uk/applied-ratio)  [Recipes](https://www.piximaths.co.uk/applied-ratio)  [Best buys](https://www.piximaths.co.uk/applied-ratio) |
| **3** | Divide quantities by simple ratios.  Use ratio to convert between currencies. | [Dividing/sharing into ratios](https://www.piximaths.co.uk/dividing-into-a-ratio)  [Exchange rates](https://www.piximaths.co.uk/applied-ratio) |
| **4** | Use ratio to solve problems about exchange rates.  Use proportional reasoning to solve problems, choosing the correct numbers to take a whole.  Use direct and inverse proportion graphically. | [Exchange rates](https://www.piximaths.co.uk/applied-ratio)  [Best buys](https://www.piximaths.co.uk/applied-ratio)  [Graphical proportion](https://www.piximaths.co.uk/proportion) |
| **5** | Calculate direct and inverse proportion algebraically.  Calculate direct and inverse proportion involving squares, cubes and roots. | [Direct and inverse proportion](https://www.piximaths.co.uk/proportion) |
| **6** | Calculate with exponential growth and decay | [Exponential growth and decay](https://www.piximaths.co.uk/proportion) |
| **7** |  |  |
| **8** |  |  |
| **9** |  |  |