|  |  |
| --- | --- |
| **Title of unit:** | Ratio and proportion |
| **Overview of unit:** | Simplifying ratioDividing into a ratioBest buysRecipesExchange ratesDirect and inverse proportion |
| **Cross-curricular/ extra-curricular links:** | Art/Design – mixing paint as a ratio; the Golden RatioMFL – exchange rates |
| **Literacy/ numeracy links:** | Keywords:Ratio, proportion, simplify, divide, direct, inverse |

|  |  |  |
| --- | --- | --- |
| **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** |  |  |