

Year 8 – Proportional Reasoning **Ratio & Scale**



Scan the QR code to visit the curriculum overview for Year 8 Maths, including topic summaries, key words, and books that you may want to read in your own time



What do I need to be able to do?

By the end of this unit you should be able to:

- Simplify any given ratio
- Share an amount in a given ratio
- Solve ratio problems given a part

Solutions should be modelled, explained and

Keywords

Ratio: a statement of how two numbers compare

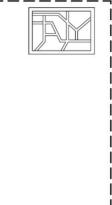
Equal Parts:: all parts in the same proportion, or a whole shared equally

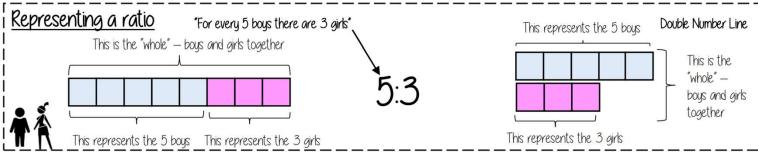
Proportion: a statement that links two ratios

Order: to place a number in a determined sequence

Part: a section of a whole Equivalent: of equal value

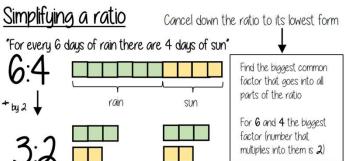
Factors: integers that multiply together to get the original value Scale: the comparison of something drawn to its actual size



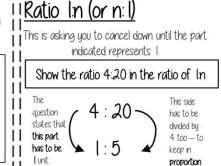


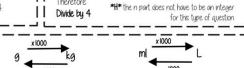


eg 2:1 would represent 2 dogs for every I cat X

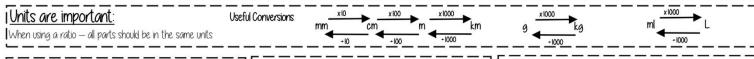


3 days of rain there are 2 days of sun" — when this happens twice the ratio becomes 6.4

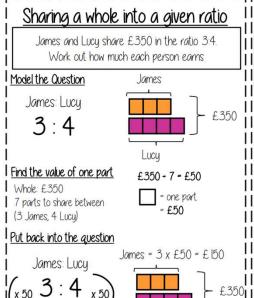




Therefore



Finding a value given I:n (or n: 1)



Lucy = $4 \times £50 = £200$

►£ 150:£200

