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| **F Unit 5a: Review of ratio and Proportion** | **Year 10 Road Map** |
| In this unit you will learn about ratio and proportion. The aims are as follows:**LG1**: Knowledge **LG2**: Application **LG3**: SkillsAssessment Grades: |
| **S/N** | **Learning Goals/Outcomes/Content** | VideoClips | R A G |  |  |
| **Ratio** |
| 1 | Understand and express the division of a quantity into a of number parts as a ratio; | 38 |  |  |  |
| 2 | Write ratios in their simplest form;  | 38 |  |  |  |
| 3 | Write/interpret a ratio to describe a situation;  | 38 |  |  |  |
| 4 | Share a quantity in a given ratio including three-part ratios;  | 106 |  |  |  |
| 5 | Solve a ratio problem in context: | 165a |  |  |  |
| 6 | use a ratio to find one quantity when the other is known;  | 106 |  |  |  |
| 7 | use a ratio to compare a scale model to a real-life object;  | 38 |  |  |  |
| 8 | use a ratio to convert between measures and currencies;  | 105 |  |  |  |
| 9 | problems involving mixing, e.g. paint colours, cement and drawn conclusions; | 165a |  |  |  |
| 10 | Compare ratios;  | 165 |  |  |  |
| 11 | Write ratios in form 1 : *m* or *m* : 1;  | 165a |  |  |  |
| 12 | Write a ratio as a fraction; | 107 |  |  |  |
| 13 | Write a ratio as a linear function; | 107 |  |  |  |
| 14 | Write lengths, areas and volumes of two shapes as ratios in simplest form;  | 38 |  |  |  |
| 15 | Express a multiplicative relationship between two quantities as a ratio or a fraction. | 107 |  |  |  |
| **Proportion** |  |  |  |  |
| 16 | Understand and use proportion as equality of ratios;  | 42 |  |  |  |
| 17 | Solve word problems involving direct and indirect proportion; | 42 |  |  |  |
| 18 | Work out which product is the better buy;  | 41 |  |  |  |
| 19 | Scale up recipes; | 39 |  |  |  |
| 20 | Convert between currencies; | 105 |  |  |  |
| 21 | Find amounts for 3 people when amount for 1 given;  | 42 |  |  |  |
| 22 | Solve proportion problems using the unitary method; | 42 |  |  |  |
| 23 | Recognise when values are in direct proportion by reference to the graph form;  | 107 |  |  |  |
| 24 | Understand inverse proportion: as *x* increases, *y* decreases (inverse graphs done in later unit);  | 107 |  |  |  |
| 25 | Recognise when values are in direct proportion by reference to the graph form;  | 107 |  |  |  |
| 26 | Understand direct proportion ---> relationship *y* = *kx*.  | 107 |  |  |  |

Student’s comments or questions

**Links:**

LG1: You will simplify ratios and divide quantities in a given ratio.

LG2: You will apply your knowledge of ratio and proportion to scale recipes, convert between currencies and solve best value problems.

LG3: You will solve complex word problems involving ratio and proportion.