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| Objectives – Set 1 |
| By the end of these units of work, you will have learned how to…. |
| * Simplify and compare ratios
 | * Systematically list the outcomes for combined events
 | * Name 3D shapes and draw their nets
 |
| * Divide a quantity in a given ratio
 | * Use a tree diagram to list outcomes and calculate probabilities
 | * Draw plans and elevations and isometric diagrams
 |
| * Use the unitary method to solve direct proportion problems
 | * Identify mutually exclusive events and calculate their probabilities
 | * Calculate the surface area of a prism
 |
| * Solve ratio and proportion problems
 | * Estimate probabilities using experiments and compare the results to theoretical models
 | * Calculate the volume of a prism
 |
| * Compare proportions
 | * Use random numbers to simulate real world data
 |  |
| * Describe quantities in direct proportion using an equation or graph
 | * Use Venn diagrams to calculate probabilities
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|  | These are the homework clip numbers that are appropriate for this half term. | Set 1 |
| Ratio and Proportion | Probability | 3D Shapes |
| 328 – Compare quantities using ratio329 – Simplify ratios332 – Share in a given ratio 1339 - Direct proportion 1340 - Direct proportion 2 | 350 – Express a probability in numbers351 – Probability of single events (1)353 - Probability of an event not happening355 - Expectation 356 – Experimental probability and relative frequency372 – Displaying sets in Venn diagrams354 – Mutually exclusive events361 – Independent events and tree diagrams 1358 – Probability of more than one event 1359 – Probability of more than one event 2670 – Systematic listing | 584 – Surface area of cuboids567 – Counting cubes568 – Cuboids 1570 - Prisms (1)571 - Prisms (2) |

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| Objectives – Set 2 and 3 |
| By the end of these units of work, you will have learned how to…. |
| * Simplify and use ratios
 | * Use diagrams and tables to record mutually exclusive outcomes
 | * Recognise and name 3D solids and recognise their nets
 |
| * Solve problems involving direct proportion
 | * Find probabilities based on equally likely outcomes
 | * Use isometric paper and draw plans and elevations of 3D shapes
 |
| * Calculate a percentage of an amount
 | * Calculate the probability that an event does not occur from the probability that it does occur
 | * Calculate the surface area and volume of cuboids
 |
| * Calculate a percentage increase or decrease
 | * Estimate probabilities by collecting data from an experiment
 | * Calculate the volume of prisms
 |
| * Use fractions, decimals and percentages to compare simple proportions and solve problems
 | * Compare experimental probabilities with theoretical probabilities
 |  |
|  | * Use the language of sets and use sets to calculate probabilities
 |  |

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|  | These are the homework clip numbers that are appropriate for this half term. | Set 2 and 3 |
| Ratio and Proportion | Probability | 3D Shapes |
| 328 – Compare quantities using ratio329 – Simplify ratios332 – Share in a given ratio 1339 - Direct proportion 1340 - Direct proportion 288 - Percentage increase or decrease (non-calc)90 - Percentage increase or decrease | 349 – Express a probability in words350 – Express a probability in numbers351 – Probability of single events (1)353 - Probability of an event not happening355 - Expectation 356 – Experimental probability and relative frequency372 – Displaying sets in Venn diagrams | 584 – Surface area of cuboids567 – Counting cubes568 – Cuboids 1570 - Prisms (1)571 - Prisms (2) |

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| Objectives – Set 4 |
| By the end of these units of work, you will have learned how to…. |
| * Simplify ratios
 | * Understand and use the probability scale from 0 to 1
 | * Recognise and name 3D shapes
 |
| * Divide amounts into ratios
 | * Use vocabulary to describe the likelihood of events
 | * Use isometric drawings to visualise 3D shapes
 |
| * Express one amount as a proportion of a whole
 | * Find probabilities based on equally likely outcomes
 | * Use nets of 3D shapes
 |
| * Recognise and use direct proportion
 | * Use experiments to estimate probabilities
 | * Find the surface area of cubes and cuboids
 |
| * Compare proportions of amounts using fractions and percentages
 | * Use Venn diagrams to find probabilities
 | * Find the volume of a 3D shape by counting cubes
 |
| * Solve problems involving money using mental methods, written methods or using a calculator
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|  | These are the homework clip numbers that are appropriate for this half term. | Set 4 |
| Ratio and Proportion | Probability | 3D Shapes |
| 328 – Compare quantities using ratio329 – Simplify ratios332 – Share in a given ratio 177 – Fractions of an amount84 – Find percentages of amounts (common non-calc)85 - Find percentages of amounts (using 10 non calc) | 349 – Express a probability in words350 – Express a probability in numbers351 – Probability of single events (1)356 – Experimental probability and relative frequency372 – Displaying sets in Venn diagrams | 584 – Surface area of cuboids567 – Counting cubes568 – Cuboids 1 |