**Number**

|  | **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- | --- |
| Properties | Prime number | 28 |  |  |  |
| Cube number | 100 |  |  |  |
| Reciprocal | 71 |  |  |  |
| Decimal places | 45, 46, 56 |  |  |  |
| Bounds | 137, 138, 139 |  |  |  |
| Fractions | Products | 67, 68, 69 |  |  |  |
| Indices | Negative | 104 – 110  |  |  |  |

**Algebra**

|  | **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- | --- |
| Equations | Of a circle | 778, 779 |  |  |  |
| Linear | 176 – 189  |  |  |  |
| Quadratic | 230 – 234, 238, 239, 241, 242, 244, 245 |  |  |  |
| Number line inequality | 265, 266 |  |  |  |
| Manipulation | Factorisation of quadratic | 223 – 228 |  |  |  |
| Multiply out | 158, 160 – 166 |  |  |  |
| Completing the square | 235, 236, 237 |  |  |  |
| Graphs | Coordinate problem | 200, 824 |  |  |  |
| Perpendicular lines | 215, 216 |  |  |  |
| Turning point | 255, 256 |  |  |  |
| Functions | Inverse | 295, 296, 297 |  |  |  |
| Sequences | Triangular number | 261 |  |  |  |

**Ratio**

|  | **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- | --- |
| Ratio | Share into a ratio | 332 – 335 |  |  |  |
| On a line | 200, 330, 331, 332 |  |  |  |
| Fraction | To percentage | 76 |  |  |  |
| Conversions | Time | 709, 710, 711 |  |  |  |
| Applications | Equation to percentage | 176, 82, 83, 87, 89, 90, 97, 98 |  |  |  |
| Rate of output | 738, 896 |  |  |  |
| Pressure | 734 – 737 |  |  |  |
| Percentage | Percentage increase | 90, 91, 92, 94, 96, 97, 98 |  |  |  |
| Percentage decrease | 90, 91, 92, 95, 96, 97 |  |  |  |

**Geometry and Measures**

|  | **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- | --- |
| Area and Volume | Compound shape | 555, 558, 582, 591 |  |  |  |
| Cone | 576, 577, 587 |  |  |  |
| Hemisphere | 580, 581, 588 |  |  |  |
| Volume scale factor | 618 – 621 |  |  |  |
| Shape | Plan | 837 – 844 |  |  |  |
| Pythagoras | 497 – 507 |  |  |  |
| Measures | Time | 709, 710, 711 |  |  |  |
| Other | Geometric proof | 628 – 636, 684 – 690 |  |  |  |

**Statistics**

| **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- |
| Estimation from sample | 872, 873 |  |  |  |
| Pie chart | 427, 428, 429 |  |  |  |
| Mean | 405 – 408, 417, 418 |  |  |  |

**Probability**

| **Topics** | **Clip Number** | **R** | **A** | **G** |
| --- | --- | --- | --- | --- |
| Relative frequency | 356, 357 |  |  |  |
| Expected value | 355 |  |  |  |
| Notation | 351 |  |  |  |