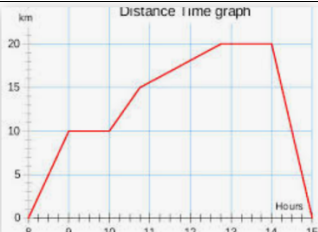


Year 8 Term 6

| Learning Aim | Emerging | Developing | Securing | | | | | | | | | | | | | | |
|----------------------|---|---|---|----|----|----|----|----|---|---|--|--|--|--|--|--|--|
| Ratio/ Proportion | Simplify ratio | Write a ratio as a fraction and divide into a given quantity Solve simple proportion eg. Recipes, exchange rates | Interchange between fractions and ratio & applying methods to problems | | | | | | | | | | | | | | |
| | Simplify 36: 8 | Q1) The conversion rate between pounds and dollars is £1 = \$1.45 (a) What is \$70 in pounds? (b) What is \$52 in pounds? | On Tuesday, some adults and children were at the theatre. The ratio of the number of adults to children was 2:4. Each person had a seat in the Circle or had a seat in the Stalls. $\frac{3}{4}$ of the children had seats in the Stalls. 82 children had seats in the Circle. There are exactly 900 seats in the theatre. On this particular Tuesday, were there people on more than 50% of the seats? You must show how you get your answer. | | | | | | | | | | | | | | |
| Graphs | Work with coordinates in all four quadrants | Recognise and sketch linear graphs: $y = m$, $x = n$, $y = x$ & $y = mx + c$ Draw and interpret distance time graph | Recognise and sketch other graphs inc. quad, cubic, reciprocal | | | | | | | | | | | | | | |
| | Plot coordinates: (-2, 0) (3, -3) |  | Using -10 to 10 axis: Q1) Plot $y = x^2 + 5x + 5$ | | | | | | | | | | | | | | |
| | | <table border="1" data-bbox="997 1149 1406 1238"> <tr> <td>x</td> <td>-5</td> <td>-4</td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> </tr> <tr> <td>y</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | x | -5 | -4 | -3 | -2 | -1 | 0 | y | | | | | | | |
| x | -5 | -4 | -3 | -2 | -1 | 0 | | | | | | | | | | | |
| y | | | | | | | | | | | | | | | | | |

| Extension opportunities | Introduction to: |
|-------------------------|--|
| Algebra | Expand products of two or more binomials Factorise quadratics |
| Shape | Problem solve with Pythag Apply knowledge of formula to problem solve functional skill style questions. Bounds |

You can find practice on all the topics taught this term at Mathsworkout.co.uk

Login: sarum
Password: solid92

Go to algebra, section 13. Number, section 18,19

Choosing the right level of difficulty for you within each topic area.