



UNITED KINGDOM MATHEMATICS TRUST

## **LOGIC ROUND**

- Time allowed: 20 minutes.
- You will be given one logic puzzle requiring 25 answers. You are expected to work as a team and how you organise yourself to answer the question is up to you.
- *Two* marks are awarded for every correct answer written on the answer sheet.

## Logic Round

This year's logic puzzle is about five families. By using the clues in the statements below, you need to work out each of their surnames, what pet they have, how many children are in the family, the colour of their car, and where they go on holiday.

On the answer grid their house numbers have been given for you.

- The Pines have a pet leopard.
- The owners of the pet lion holiday in Norway.
- The owners of the black car appear next to the owners of the elephant on the grid.
- The Ash family have two more children than the Oak family.
- The owners of the giraffe have half as many children as two of the other families.
- If you square the number of children in the Pine family, then cube that answer, you get the house number where the Redwoods live.
- The Oak family live at number 4.
- The Elm family own a white car.
- The number of children in the Ash family is a factor of their house number.
- The family that holiday in Germany have one child.
- The Redwoods and the Pines have the same number of children.
- The pet elephant lives at number 27.
- The family that holiday in France have a house number which is both a square number and a cube number.
- The owners of the yellow car have the same number of children as the Pines.
- The owners of the black car holiday in Germany.
- The number of children in one of the families is the same as their house number.
- The family that holiday in Portugal appear next to the owners of the pet crocodile on the grid.
- The owners of the red car holiday in Spain with their two children.
- There are 13 children in all.
- The owners of the pet giraffe appear next to the family that holiday in Portugal on the grid.
- The families that holiday in Spain and France have the same number of children.
- The pet leopard lives in the house which has the lowest number.
- There are 5 children in the house with the pet lion.
- The Ash family own an orange car.
- All the families have at least one child.
- The house number of the owners of the yellow car is between the house numbers of the owners of the lion and the elephant.

## Logic Round – Answer Grid

School Name \_\_\_\_\_

School Number \_\_\_\_\_

<b>House Number</b>	<b>2</b>	<b>4</b>	<b>27</b>	<b>64</b>	<b>97</b>
<b>Family name</b>					
<b>Pet</b>					
<b>Colour of car</b>					
<b>Number of children</b>					
<b>Holiday destination</b>					

Two marks awarded for each correct answer

**Total marks (out of 50):**