

# Statistics



## Essential knowledge for a mathematician:

- Knowledge of place value
- Knowledge of calculation using all four operations
- Knowledge of fractions and percentages
- Knowledge of geometry (shape, space and measure)
- Knowledge of statistics
- Knowledge of ratio and proportion
- Knowledge of algebra

## Essential skills for a mathematician:

- To problem solve
- To reason about mathematical ideas and concepts
- To make links and transfer skills across the mathematical curriculum, other areas of the curriculum and in real life
- To be excited and inquisitive about maths

### INTERPRETING, CONSTRUCTING AND PRESENTING DATA

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	interpret and construct simple pictograms, tally charts, block diagrams and simple tables	interpret and present data using bar charts, pictograms and tables	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	complete, read and interpret information in tables, including timetables	interpret and construct pie charts and line graphs and use these to solve problems
	ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity				
	ask and answer questions about totalling and comparing categorical data				

### SOLVING PROBLEMS

		solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average
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