

Students should develop their mathematical skills, and apply these well across the curriculum

### **Long Multiplication**



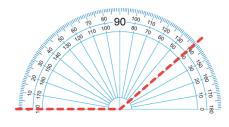
X	50	4
30	1500	120
2	100	8



# **Measuring Accurately**

Ignore the small gap at the start of the ruler! Start from the first mark.

### This line measures 9.5cm or 95mm



Estimate the size of the angle first. This one is bigger than a right angle so it must be between 90° and 180°

Make sure the centre of the protractor is on the corner

This line goes through zero on the outside scale

Reading from the outside scale this angle measures 139°

## **Division**



368

Answer 368

## Finding the Mean (Average)



Question: Find the mean of these numbers 6, 10, 14, 7, 18, 5



First add up all the numbers: 6 + 10 + 14 + 7 + 18 + 5 = 60Divide by how many numbers there are:  $60 \div 6 = 10$ 

## Calculating a Percentage

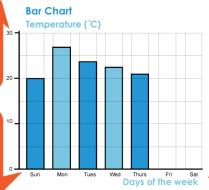


Without a 10% of 80=8 calculator 10% of 80=8 10% of 80=8 5% of 80=4 28

With a calculator 80x35÷100=28

### The numbers up the side should be in line with the lines on the page

If these labels are words you should leave gaps between the bars



Always use a pencil and ruler to draw the bar chart

Each axis should be

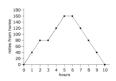
clearly labelled

### **Working out the Angles** for a Pie Chart

The angle of a pie adds up to 360° There are 24 people altogether  $360 \div 24 = 15$  so each person is 1% of the pie

Colour	No. of People	Angle	
Red Blue Silver Black Other	5 3 10 2 4	5x15=75° 3x15=45° 10x15=150° 2x15=30° 4x15=60°	
	24	360 Check the an	gles add up to 360

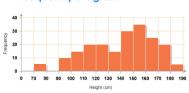
#### Line Graph



A Line Graph is often used when looking at something happening over a period of time

It is also often used in science

#### Frequency Diagram



A Frequency Diagram looks similar to a Bar Chart except that the scale along the x axis is continuous and there are no gaps between the bars

#### Scattergraph



A Scattergraph can be used to see if there is any correlation (connection) between two sets

A line of best fit can be drawn to help make predictions

### **Metric Units**















