

## 23 Comparing two sets of data

- 1 This table shows the marks (out of 50) obtained in some tests by two pupils:

Anna	28	36	41	36	29	30	29	32
Barry	11	48	18	49	21	16	15	27

Use the range and mean to decide which pupil is better.

Use this information to compare the results.

Comparison

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Anna

Range .....

Mean .....

Barry

Range .....

Mean .....

Comparison

- 2 This table shows the time taken by 10 boys and 8 girls to thread a needle. The time is in seconds:

Boys					Girls			
48	83	32	3	18	3	18	11	16
2	53	64	18	23	21	5	4	10

Use the range, median and mean to compare the times taken by the boys and girls.

Use your findings to compare the boys and girls.

Comparison .....

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Boys

Range .....

Median .....

Mean .....

Girls

Range .....

Median .....

Mean .....

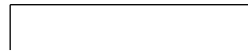
Comparison

Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

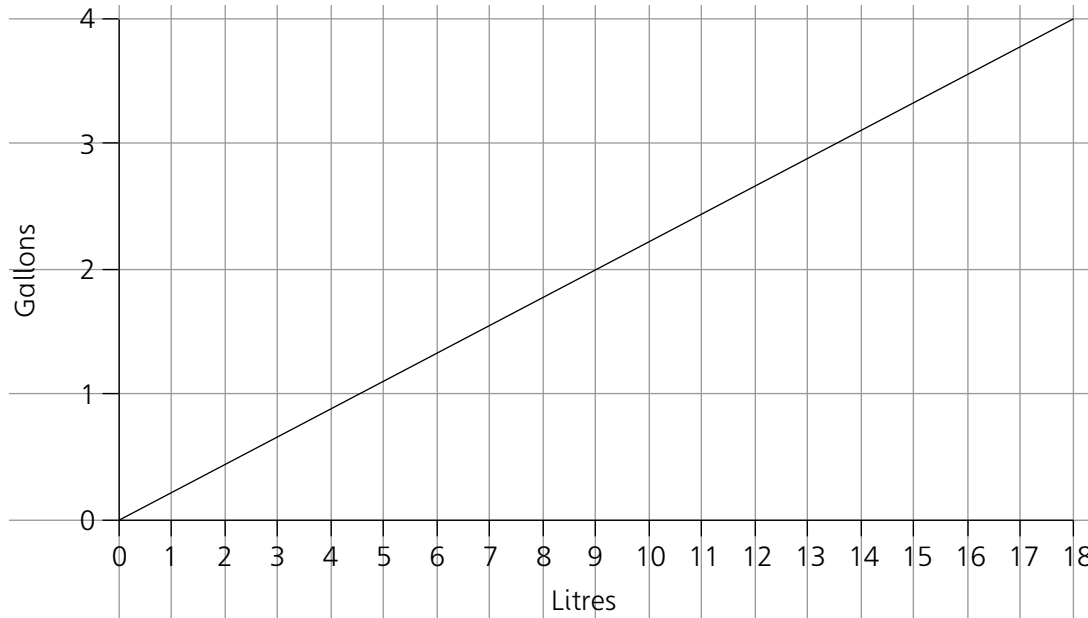
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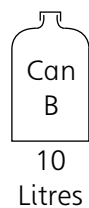
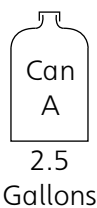
# 24 Using and drawing conclusions from graphs – 1



This is a conversion graph for changing gallons into litres:

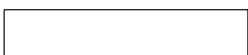


- 1 Mr Wright puts 3 gallons of petrol into his car.  
How many litres is this? 1.....
- 2 Mrs Read bought 18 litres of petrol. How many gallons was this? 2.....
- 3 John bought a one gallon can of oil. How many litres was this? 3.....
- 4 The petrol tank of a lorry holds 20 gallons.  
How many litres is this? 4.....
- 5 A petrol tanker delivered 4000 gallons of petrol to a filling station. How many litres is this? 5.....
- 6 A tank holds 135 litres of water. How many gallons is this? 6.....
- 7 A ship holds 10 000 gallons of oil.  
How many litres is this? 7.....
- 8 Which can holds more?  
8 Can.....

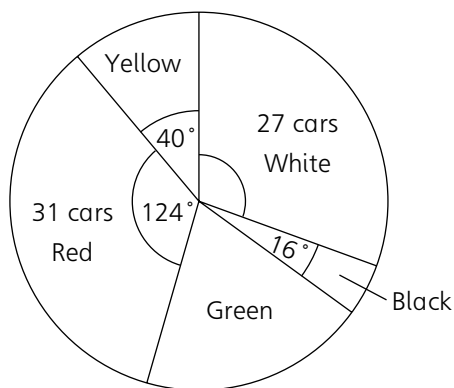


Minimum mark	7	5	4	2		_____
Circle grade	A	B	C	D	E	8

## 27 Understanding pie charts – 2

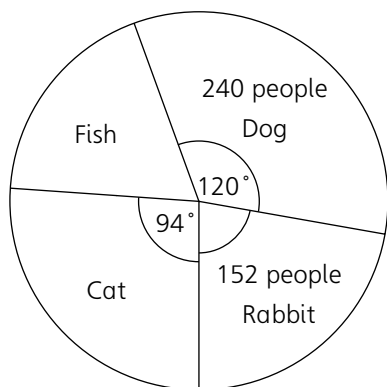


1 This pie chart shows the colours of cars in a car park:



- a How many cars were yellow? 1a .....
- b How many cars were black? 1b.....
- c What is the angle for white? 1c.....
- d How many cars were green? 1d .....
- e What is the angle for green? 1e.....
- f How many cars were in the car park? 1f .....

2 This pie chart shows the favourite pets of people in a survey:



- a How many people chose cats? 2a .....
- b What is the angle for rabbit? 2b.....
- c How many people chose fish? 2c.....
- d What is the angle for fish? 2d .....
- e Which is the favourite pet? 2e.....
- f How many people took part in the survey? 2f .....



Minimum mark	10	8	6	4	
Circle grade	A	B	C	D	E

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**Profile sheet: Individual assessment  
Level 5**

Name: ..... Teacher: .....

Class: .....

General topic	NUMBER AND ALGEBRA					Total
Worksheet number	Fractions and percentages					A = 190
Mark	Maths without a calculator					B = 156
Out of	Algebra					C = 118
Grade (A to E)	Total					D = 80
	1	2	3	4	5	236
	20	24	16	20	100	

General topic	SHAPE, SPACE AND MEASURES					Total
Worksheet number	Angles					A = 62
Mark	2-D shapes					B = 48
Out of	Measures					C = 37
Grade (A to E)	Total					D = 22
	14	15				74
	8	8	16			

General topic	HANDLING DATA					Overall Total:
Worksheet number	Mean and range					A = 346
Mark	Using data					B = 278
Out of	Pie charts					C = 211
Grade (A to E)	Probability					D = 137
	21	22				423
	24	5	29			

Main strengths	
Main weaknesses	