ıme	Date _			SKI
To find the R	we need to s .	the s	number fro	m the
b				
To find the A are.	we need to a	the numbers a	and d by	how many there
	2, 5, 3	3, 7, 10, 8, 17, 2	2, 7, 9	
Find the range o	f these numbers:			
Now find the ave	erage:			
Write the name a	and shoe size of ever	yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		
		yone in the class.		

4. How do *you* compare to the average?

Data collection, mean average and range

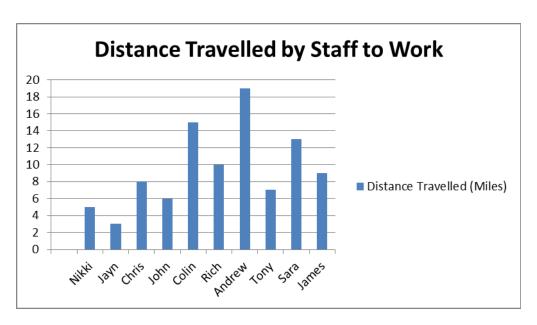
Name _____ Date ____



1. List the ages of students in this class:



- 2. What is the range of ages?
- 3. What is the average age?



Use the bar chart above.

- 1. Who travels the furthest to work?
- 2. Who lives closest to college?
- 3. What is the range of distances travelled by staff to get to work?
- 4. What is the average distance that staff travel?
- 5. Do you think that is more, or less miles, than you travel to college?

ame	-	Date			SKI		
	Now we a	Now we are going to get measuring! Work with a partner and complete the table below with the <i>circumference</i> the students' heads in your group; make sure you measure in centimetres					
3 5							
1. Who ha	as got the large	st head circumf	erence and wha	at is it?			
2. Who ha	as got the smal	est and what is	it?				
3. What is	s the range of h	lead circumfere	nces?				

7. Is your head measurement above or below average?

5. What is the average head circumference?

4. Convert this to millimetres.

6. What is this in millimetres?

Data collection, mean average and range

Name	Date	
	_ ~	





Geoff is a multi-tradesman.

He has been told by the local builders' merchant that if he spends an average of at least £1000 per month, then they will give him a reward account card which gives him a discount.

The table below shows how much Geoff spent in 2012.

Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
£875	£915	£1005	£2150	£1100	£1000	£1000	£500	£905	£1010	£970	£750

In which month Geoff spend the most?

In which month did Geoff spend the least?

Why do you think he might have spent less in that month?

What is the range of his spending at the builders' merchants?

Does Geoff qualify for a reward card? **Show your working.**



Data collection, mean average and range.

Curriculum mapping



FUNCTIONAL MATHEMATICS Coverage and Range statements (indicative only)

This resource is ideal for underpinning many Functional Maths coverage and range statements at Level 1 and Level 2 (see highlighted areas of the table below). Coverage and range statements provide an indication of the type of mathematical content candidates are expected to apply in functional contexts. Relevant content can also be drawn from equivalent National Curriculum levels & Adult Numeracy standards. However, in Functional Maths exams it is the process skills that are assessed; these are key to successful Functional Maths teaching and learning and must always be developed and stressed during teaching (see below). Ofqual (2009), Functional Skills criteria for Mathematics: Entry 1, Entry 2, Entry 3, level 1 and level 2. http://www.ofqual.gov.uk/

Entry Level 3

- a) add and subtract using three-digit numbers 🗸
- b) solve practical problems involving multiplication and division by 2, 3, 4, 5, 10 ✓
- c) round to the nearest 10 or 100
- d) understand and use simple fractions ✓
- e) understand, estimate, measure and compare length, capacity, weight and temperature ✓
- f) understand decimals to two decimal places in practical contexts ✓
- g) recognise and describe number patterns
- h) complete simple calculations involving money and measures <
- recognise and name simple 2D and 3D shapes and their properties
- j) use metric units in everyday situations ✓
- k) extract, use and compare information from lists, tables, simple charts and simple graphs ✓

Level 1

- a) understand and use whole numbers and understand negative numbers in practical contexts
- b) add, subtract, multiply and divide whole numbers using a range of strategies ✓
- c) understand and use equivalences between common fractions, decimals and percentages ✓
- d) add and subtract decimals up to two decimal places 🗸
- e) solve simple problems involving ratio, where one number is a multiple of the other
- f) use simple formulae expressed in words for one or twostep operations
- g) use data to assess the likelihood of an outcome

- h) solve problems requiring calculation, with common measures, including money, time, length, weight, capacity & temperature ✓
-) convert units of measure in the same system \checkmark
- i) work out areas and perimeters in practical situations
- k) construct geometric diagrams, models and shapes
- extract and interpret information from tables, diagrams, charts and graphs ✓
- m) collect and record discrete data and organise and represent information in different ways ✓
- n) find mean and range ✓

Process Skills (all levels)						
	Analysing – processing and using mathematics	Interpreting – interpreting and communicating the results of the analysis				
Skill Standards (Entry Level 3)						
contexts and situations ✓ Begin to develop own strategies for solving	Apply mathematics to obtain answers to simple given practical problems that are clear and routine Use simple checking procedures	Interpret and communicate solutions to practical problems in familiar contexts and situations ✓				
Skill Standards (Level 1)						
and unfamiliar contexts and situations, some of which are non-routine ✓ Identify and obtain necessary information	Apply mathematics in an organised way to find solutions to straightforward practical problems for different purposes Use appropriate checking procedures at each stage	interpret and communicate solutions to practical problems, drawing simple conclusions and giving explanations ✓				