## Year 8 Level 8 Maths Practice Assessment

Name:	Class		Date:	
A <u>Number and the number system</u>				
1. (a) Write $\frac{7}{15}$ as an exact decimal				
(b) Write 0.1212121212 as a f	raction			
			1 mark (L8/1)	
B <u>Calculating</u>				
<ul> <li>2. (a) A plot of land is valued at £35,000.</li> <li>Over the next three years the value of the plot of land falls by 15% each year.</li> <li>What is its value by the end of this three year period?</li> </ul>				
			1 mark (L8/2)	
(b) A loaf of bread increases in price by 4% to £1.56. What was the cost of the loaf of bread before the price increase?				
			1 mark (L8/2)	
3. (a) (i) Express 0.000043 in standard form				
(ii) Express 7 x $10^4$ as an ordinary numb	ber		1 mark (L8/3)	
			1 mark (L8/3)	

(b) Work out  $3.25 \times 10^5 \times 2.4 \times 10^{-1}$ Give your answer in standard form

..... 1 mark (L8/3)

## Shape, Space and Measure



А

X = .....° 2 marks (L8/12)

## E Data Handling

6 (a) The speeds of 100 cars on a motorway were recorded.

The grouped frequency table shows some information about the speeds of these cars.

Speed (s mph)	Frequency
40 < s ≤ 50	4
50 < s ≤ 60	19
60 < s ≤ 70	34
70 < s ≤ 80	27
80 < s ≤ 90	14
90 < s ≤ 100	2

Speed (s mph)	Cumulative Frequency
40 < s ≤ 50	4
$40 < s \le 60$	
40 < s ≤ 70	
40 < s ≤ 80	
40 < s ≤ 90	
40 < s ≤ 100	

(a) Complete the cumulative frequency table.

1 mark (L8/14)



(c) Use your graph to find an estimate for the median speed.

..... mph 1 mark(L8/14)

(d) Use your graph to find an estimate for the interquartile range.

..... mph 2 marks (L8/14)