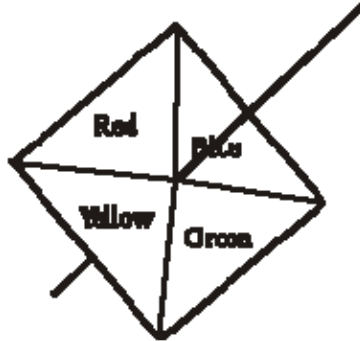


**Foundation/Higher GCSE Mathematics Revision Pack****DATA HANDLING – NON-CALC**

**Q1.** Here is a 4-sided spinner.



The sides of the spinner are labelled Red, Blue, Green and Yellow.  
 The spinner is biased.  
 The table shows the probability that the spinner will land on each of the colours Red, Yellow and Green.

Colour	Red	Blue	Green	Yellow
Probability	0.2		0.3	0.1

Work out the probability the spinner will land on Blue.

.....

**(Total 2 marks)**

**Q2.** Here are the ages, in years, of 15 teachers.

35   52   42   27   36

23   31   41   50   34

44   28   45   45   53

Draw an ordered stem and leaf diagram to show this information.  
 You must include a key.



<b>Key:</b>  
---------------------

**(Total 3 marks)**

**Q3.** The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15		14	54
Girl		8	16	
Total	37			100

(a) Complete the two-way table. (3)

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.

.....

(1)

(Total 4 marks)

**Q4.** Naomi wants to find out how often adults go to the cinema.

She uses this question on a questionnaire.

“How many times do you go to the cinema?”

Not very often      Sometimes      A lot

(a) Write down **two** things wrong with this question.

1 .....

.....

2 .....

.....

(2)

(b) Design a better question for her questionnaire to find out how often adults go to the cinema.  
You should include some response boxes.

(2)

(Total 4 marks)

**Q5.** Here are the ages, in years, of 15 teachers.

35	52	42	27	36
23	31	41	50	34
44	28	45	45	53

- (a) Draw an ordered stem and leaf diagram to show this information.  
You must include a key.



<b>Key.</b>
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(3)

One of these teachers is picked at random.

- (b) Work out the probability that this teacher is more than 40 years old.

.....

(2)

(Total 5 marks)

**Q6.** Fred is going to take a survey of the magazines read by students.

He wants to design a questionnaire.

- (a) Design a suitable question that he could use to find out what types of magazine students read.

(2)

Fred put the question below on his questionnaire.

'How many magazines have you read?'

--

A few

--

A lot

- (b) Design a better question.  
You should include some response boxes.

(2)

(Total 4 marks)

**Q7.** The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15		14	54
Girl		8	16	
Total	37			100

(a) Complete the two-way table. (3)

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.  
..... (1)

One of the girls is picked at random.

(c) Work out the probability that this girl did **not** walk to school that day.  
..... (2)

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**(Total 6 marks)**

END