

Centre No.						Paper Reference	Surname	Initial(s)
Candidate No.						/	Signature	

Paper Reference(s)

# Edexcel GCSE

## Mathematics

### Unit 2 – Section A (Calculator)

### Data Handling

# Higher Tier

## Mock Paper

Time: 20 minutes



Examiner's use only

--	--	--

Team Leader's use only

--	--	--

Section	Leave Blank
A	
B	

**Materials required for examination**

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

**Items included with question papers**

Nil

**Instructions to Candidates**

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper. Answer ALL the questions. Write your answers in the spaces provided in this question paper. If you need more space to complete your answer to any question, use additional answer sheets.

**Information for Candidates**

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 5 questions in this question paper. The total mark for this section is 15. There are 8 pages in this question paper. Any blank pages are indicated.

**Calculators may be used.**

If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

**Advice to Candidates**

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2006 Edexcel Limited.

Printer's Log. No.  
**N30275A**  
W850/XXXX/57570 2/2



*Turn over*  
**edexcel**  
advancing learning, changing lives

Leave  
blank

**SECTION A**

**Answer ALL FIVE questions.**

**Write your answers in the spaces provided.**

**You must write down all stages in your working.**

1. Barry is going to carry out a survey of the favourite school subject of each of his friends.

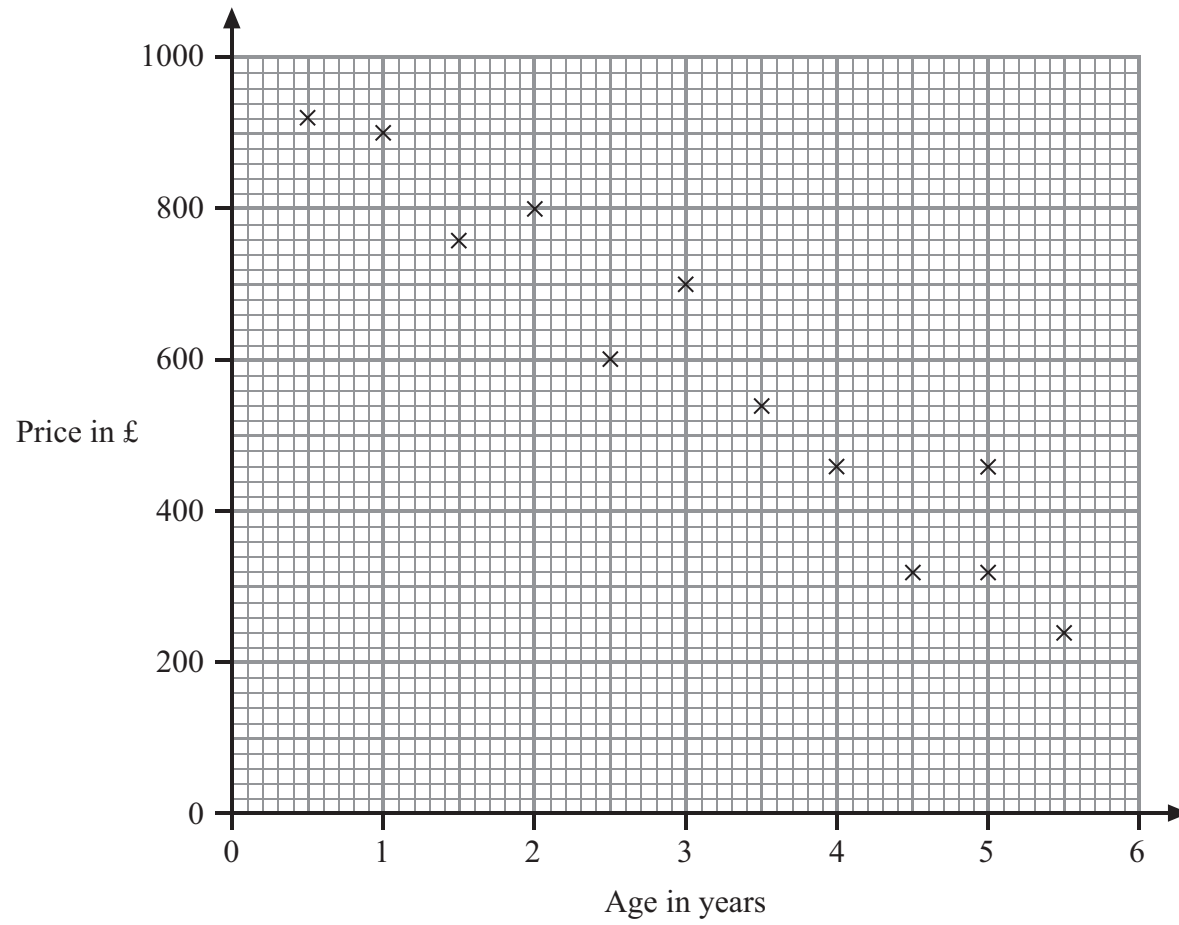
Design a suitable data collection sheet that Barry could use.

**Q1**

**(Total 3 marks)**

Leave blank

2. The scatter graph shows the ages, in years, and the prices, in £, of 12 scooters.



(a) What type of correlation does this scatter graph show?

.....  
(1)

(b) Draw a line of best fit on the scatter graph.

(1)

Eric spends £500 on a scooter.

(c) Use your line of best fit to estimate the age of this scooter.

..... years  
(1)

Q2

(Total 3 marks)

Leave blank

3. Rovers will either win, draw or lose their next match.

The probability that Rovers will win their next match is 0.5

The probability that Rovers will draw their next match is 0.2

Work out the probability that Rovers will lose their next match.

Q3

.....  
(Total 2 marks)

4. The table shows the number of units of electricity used in an office each month from January to June.

Month	Units of electricity
January	850
February	740
March	780
April	700
May	560
June	420

(a) Work out the 3-point moving averages for this information.  
The first one has been worked out for you.

790 , ..... , ..... , .....  
(2)

(b) What do your moving averages in part (a) tell you about the number of units of electricity used from January to June?

.....

.....  
(1)

(Total 3 marks)

Q4

Leave blank

5. The table shows some information about the pupils at Kinder School.

Year group	Girls	Boys	Total
Year 1	39	51	90
Year 2	69	41	110
Total	108	92	200

Anil takes a sample of 20 of the 200 pupils.  
His sample is stratified by both Year group and gender.

(a) Work out the number of Year 2 girls in his sample.

.....  
(2)

Anil needs to take a random sample for each of the strata.

(b) (i) Explain what is meant by a random sample.

.....  
.....

(ii) Describe a method that Anil could use to obtain his random samples.

.....  
.....

(2)

Q5

(Total 4 marks)

**TOTAL FOR SECTION A: 15 MARKS**

**END**

**BLANK PAGE**

**BLANK PAGE**

**BLANK PAGE**