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

Paper Reference(s)

Examiner's use only

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Team Leader's use only

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# Edexcel GCSE

## Mathematics

Unit 1 – Section B (Non-Calculator)

Data Handling

# Higher Tier

Specimen Paper

Time: 20 minutes



### Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.  
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 4 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 must not be used.**

### 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.

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**SECTION B**

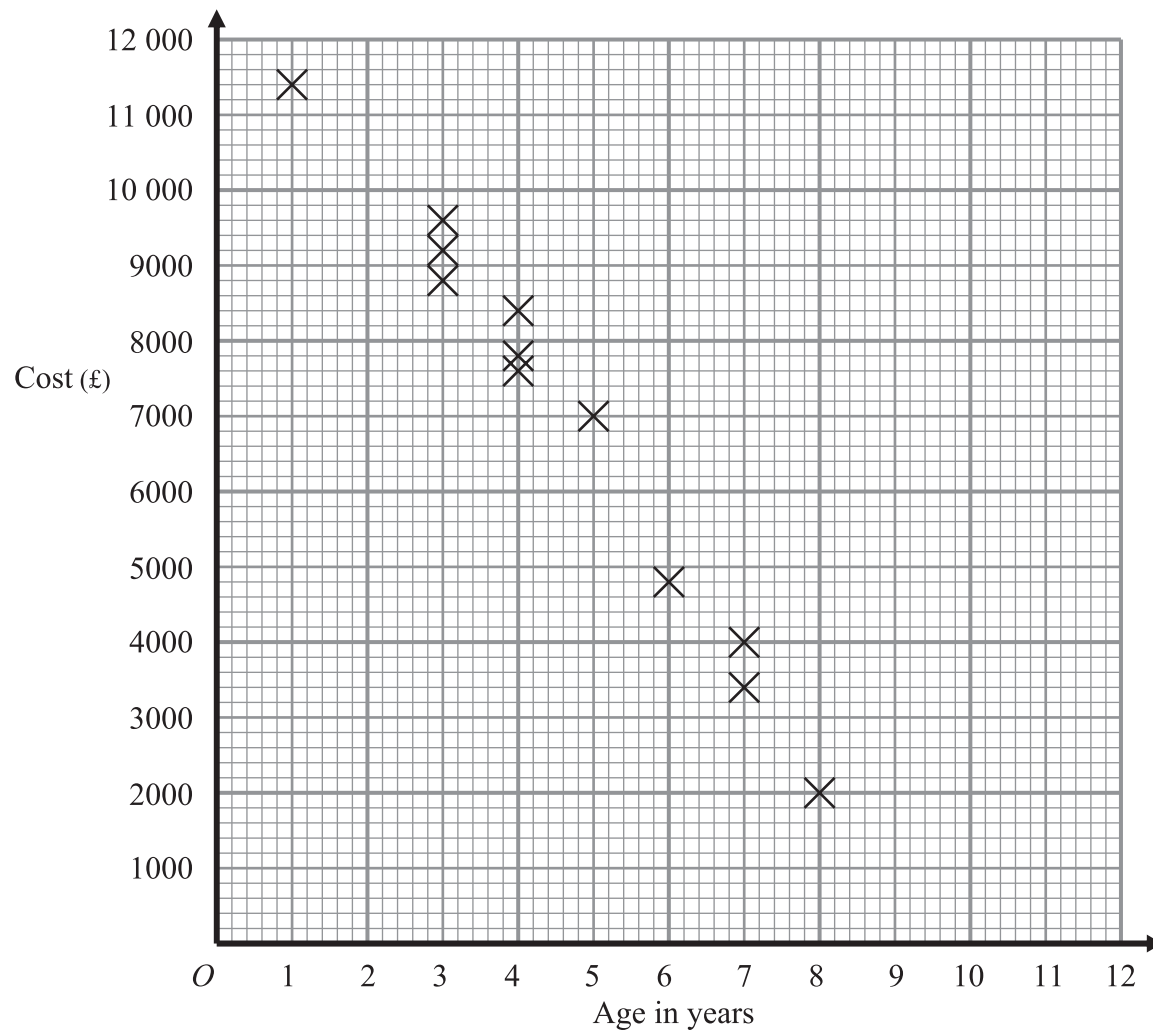
**Answer ALL FOUR questions.**

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

**You must NOT use a calculator for this section.**

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

1. Tom collects information about the age and cost of some Ford Mondeo cars.  
He plots a scatter graph of his results. Here is his graph.



Tom collects data on 3 more Ford Mondeo cars.

|          |        |      |      |
|----------|--------|------|------|
| Age      | 2      | 7    | 9    |
| Cost (£) | 10 000 | 3000 | 1000 |

- (a) Plot these points onto the scatter graph.

**(1)**

|   |  |
|---|--|
| <p>(b) Estimate</p> <p>(i) the cost of a <math>5\frac{1}{2}</math> year old Ford Mondeo.</p> <p style="text-align: right;">£ .....</p> <p>(ii) the age of a Ford Mondeo that cost £6 000</p> <p style="text-align: right;">..... years</p> <p style="text-align: right;"><b>(4)</b></p> <p style="text-align: right;"><b>(Total 5 marks)</b></p>  | <p>Leave blank</p> <p><b>Q1</b></p> <input type="text"/> |
| <p><b>2.</b> The manager at “Wheels R Us” recorded the time in minutes it took to change the wheels on cars using his garage.</p> <p>Here are his results.</p> <p style="text-align: center;">25 34 12 8 6 21 18 14 16 22</p> <p style="text-align: center;">21 15 16 32 9 15 18 21 12 8</p> <p>(i) Draw a stem and leaf diagram to show these results.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">Key: 1   4 = 14</div> <p>(ii) Find the median time.</p> <p style="text-align: right;"><b>(Total 4 marks)</b></p> | <p><b>Q2</b></p> <input type="text"/>                    |
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3. An IT company has 80 employees.

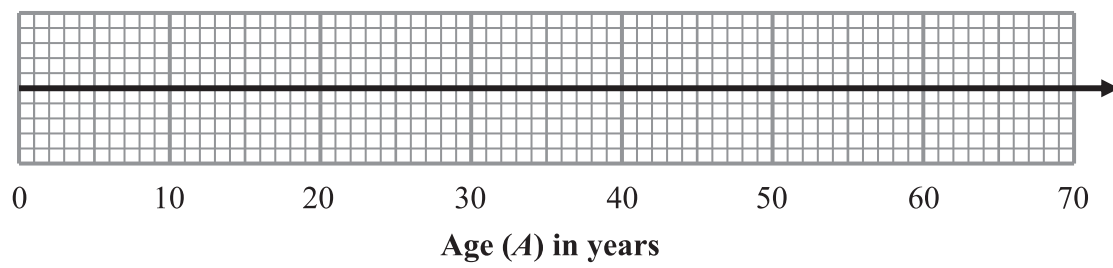
The age of the youngest employee is 24 years.  
The age of the oldest employee is 54 years.

The median age is 38 years.  
The lower quartile age is 30 years.  
The upper quartile age is 44 years.

(a) On the grid below, draw a box plot to show information about the ages of the employees.

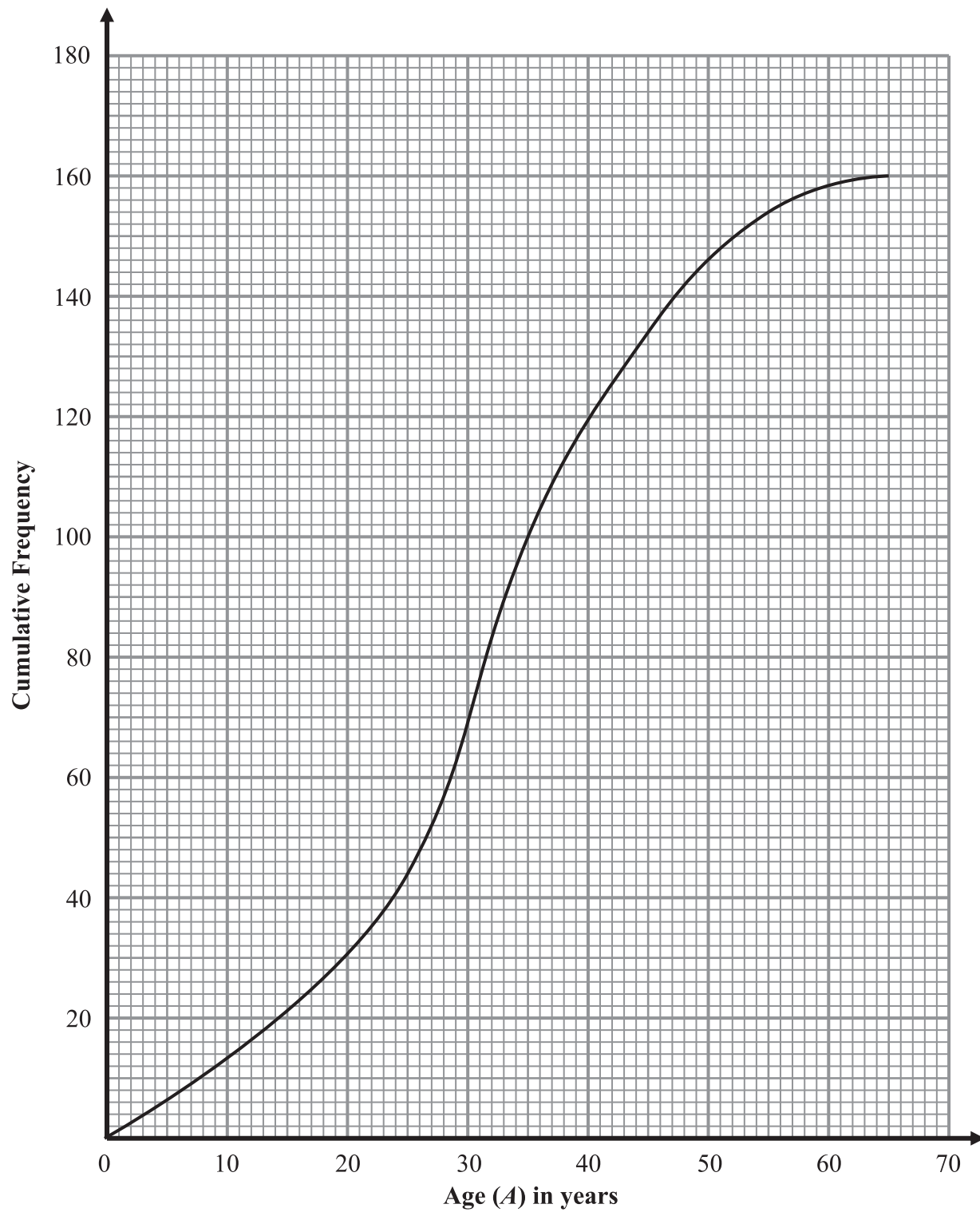
(2)

Grid for part (a)



The cumulative frequency graph opposite shows the ages of 160 employees at another IT company.

Leave blank



(b) Compare and contrast the ages of the two IT companies.

.....

.....

.....

.....

(2)  
(Total 4 marks)

Q3

Leave  
blank

4. There are 800 pupils at Hightier School.  
The table shows information about the pupils.

| Year group | Number of boys | Number of girls |
|------------|----------------|-----------------|
| 7          | 110            | 87              |
| 8          | 98             | 85              |
| 9          | 76             | 74              |
| 10         | 73             | 77              |
| 11         | 65             | 55              |

An inspector is carrying out a survey into pupils' views about the school. She takes a sample, stratified both by Year group and by gender, of 50 of the 800 pupils.

Calculate the number of Year 9 boys to be sampled.

.....  
**Q4**

**(Total 2 marks)**

**TOTAL FOR SECTION B: 15 MARKS**

**END**

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