

Centre No.						Paper Reference							Surname	Initial(s)	
Candidate No.						5	5	4	2	F	/	8	B	Signature	

Paper Reference(s)

5542F/8B

Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 8 – Section B (Non-Calculator)

Foundation Tier

Unit 2 Test

Monday 12 November 2007 – Morning

Time for Section B: 20 minutes

Examiner's use only

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Team Leader's use only

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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).
This section has 4 questions. The total mark for this section is 15. The total mark for this paper is 30.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section A only.

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

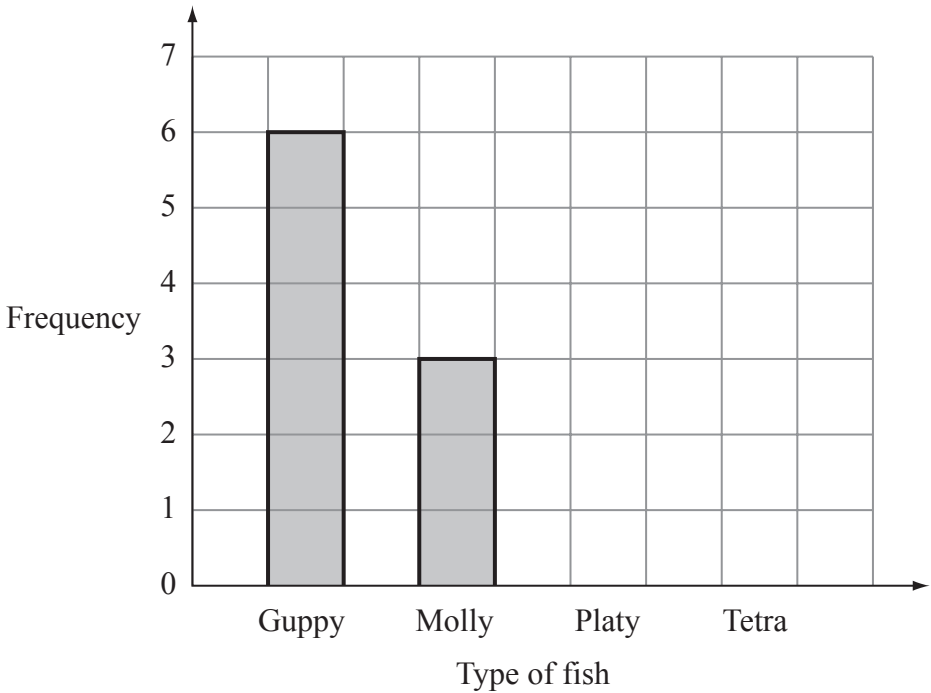
Answer ALL FOUR questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

1. Malcolm has some fish in a tank.
He has Guppies, Mollys, Platys and Tetras.
This bar chart shows some information about the Guppies and Mollys.



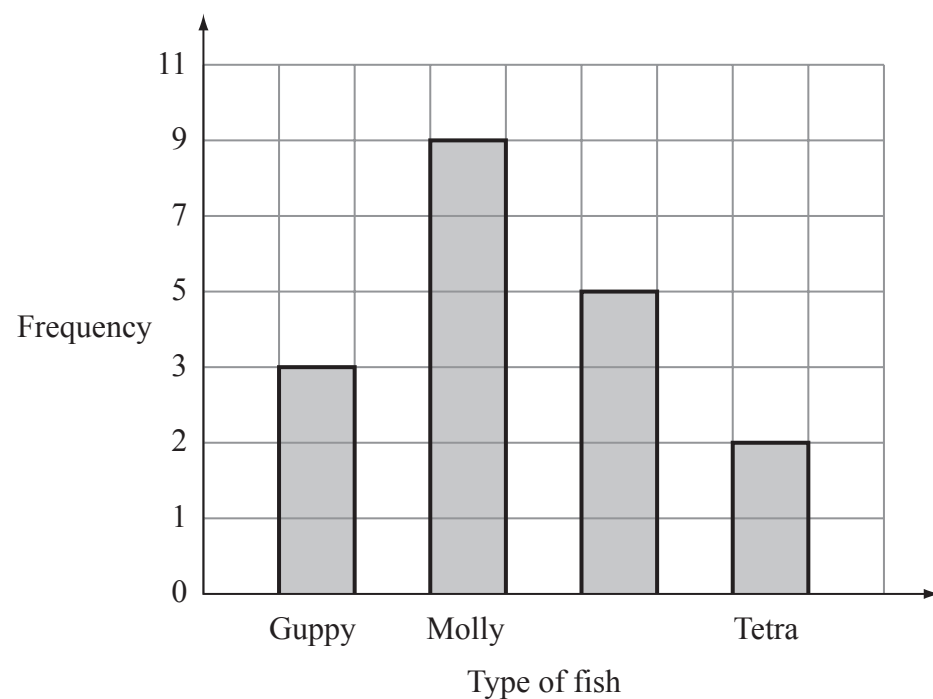
Malcolm also has 5 Platys and 7 Tetras in his tank.

- (a) Complete the bar chart. (2)
- (b) Which type of fish is the mode?
-
(1)
- (c) Work out the total number of fish in the tank.
-
(1)



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Kate also has some fish in another tank.
This bar chart shows some information about her fish.



(d) Write down **two** things that are wrong with this bar chart.

1

2

(2)

Q1

(Total 6 marks)

2. Draw a circle around the word, or words, which best describe the following possibilities.

(a) It will rain in Manchester next September.

impossible unlikely even chance likely certain

(1)

(b) The next baby to be born in London will be a girl.

impossible unlikely even chance likely certain

(1)

Q2

(Total 2 marks)

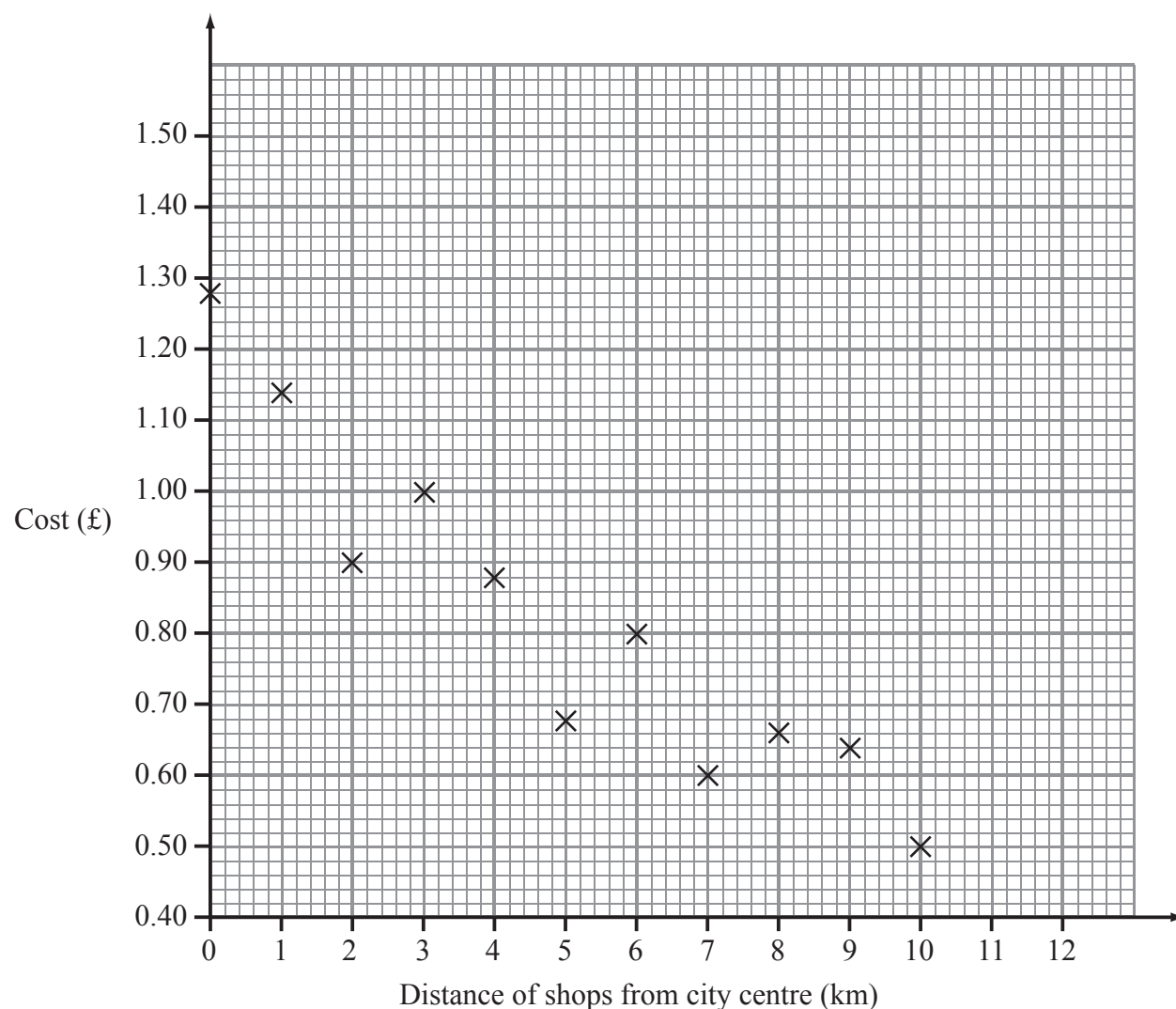


N 3 0 6 5 6 A 0 3 0 8

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3. A one litre bottle of Holborn water costs £1.28 in shops in a city centre. Shops outside the city centre also sell one litre bottles of Holborn water.

The scatter graph shows information about the costs of these bottles.



- (a) Describe the relationship between the cost of a bottle of water and the distance of the shop from the city centre.

.....
.....

(1)

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

(1)



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<p>Sam buys a bottle of water in a shop 4.5 km from the city centre.</p> <p>(c) Use your line of best fit to estimate the cost of this bottle of water.</p> <p>£</p> <p>(1)</p> <p>(Total 3 marks)</p>	<p>Leave blank</p> <p>Q3</p> <div></div>																		
<p>4. Jane plays some games of ten-pin bowling.</p> <p>Jane shows her score in each game in a stem and leaf diagram.</p> <div><table><tr><td>7</td><td> </td><td>1</td><td>5</td><td>5</td><td>9</td></tr><tr><td>8</td><td> </td><td>0</td><td>3</td><td>7</td><td></td></tr><tr><td>9</td><td> </td><td>2</td><td>4</td><td>4</td><td>8</td></tr></table><div>Key: 8 0 = 80</div></div> <p>(a) Find the range of her scores.</p> <p>.....</p> <p>(2)</p> <p>(b) Find her median score.</p> <p>.....</p> <p>(2)</p> <p>(Total 4 marks)</p>	7		1	5	5	9	8		0	3	7		9		2	4	4	8	<p>Q4</p> <div></div>
7		1	5	5	9														
8		0	3	7															
9		2	4	4	8														
<p>TOTAL FOR SECTION B: 15 MARKS</p> <p>TOTAL FOR PAPER: 30 MARKS</p> <p>END</p>																			



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