

Write your name here

Surname	Other names
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**Pearson Edexcel** Centre Number Candidate Number  
**Level 1/Level 2 GCSE (9-1)**

<b>Mathematics</b>		
<b>Paper 1 (Non-Calculator)</b>		
<b>Aiming for 4</b> <span style="float: right;"><b>Foundation Tier</b></span>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;"><b>Spring 2022 Practice Paper</b> Time: 45 minutes</td> <td style="width: 40%; padding: 5px;">Paper Reference <b>1MA1/1F</b></td> </tr> </table>	<b>Spring 2022 Practice Paper</b> Time: 45 minutes	Paper Reference <b>1MA1/1F</b>
<b>Spring 2022 Practice Paper</b> Time: 45 minutes	Paper Reference <b>1MA1/1F</b>	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 5px;"> <b>You must have:</b> Ruler graduated in centimetres and millimetres,            protractor, pair of compasses, pen, HB pencil, eraser.            Tracing paper may be used.         </td> <td style="width: 30%; padding: 5px; text-align: center;">Total Marks</td> </tr> </table>	<b>You must have:</b> Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.	Total Marks
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**Instructions**

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**



**Information**

- The total mark for this paper is 40. There are 14 questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the November examinations
- Questions marked with an asterisk (\*) also appear on the Higher Tier paper.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

**Advice**

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

**Answer ALL FOURTEEN questions.**

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

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

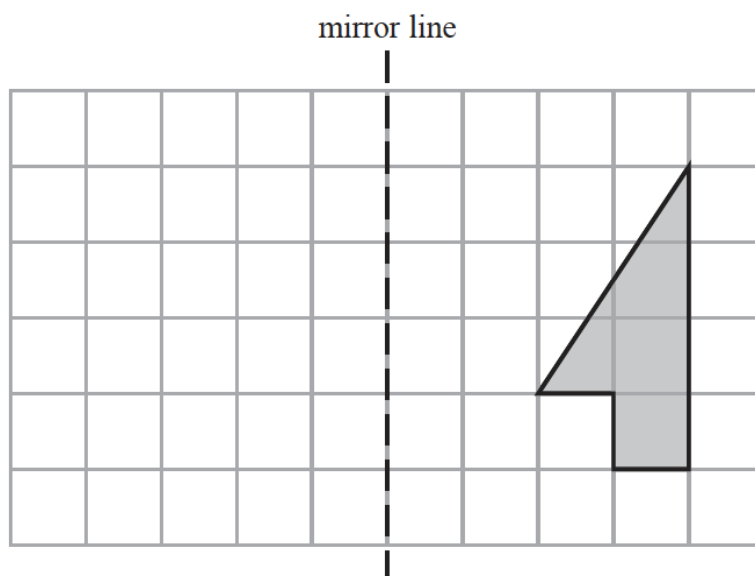
- 1** Write the following numbers in order of size.  
Start with the smallest number.

8      -7      -10      1      0      -2

.....

**(Total for Question 1 is 1 mark)**

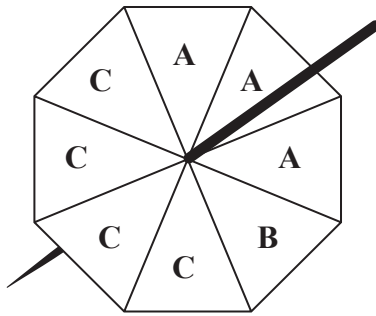
**2**



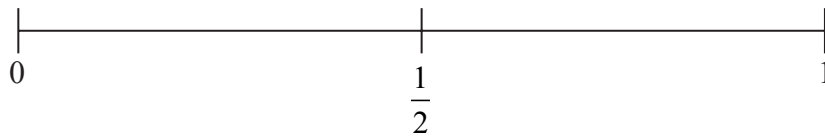
Reflect the shaded shape in the mirror line.

**(Total for Question 2 is 2 marks)**

3 Gita spins a fair 8-sided spinner.

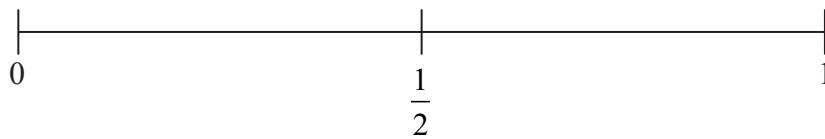


(a) On the probability scale, mark with a cross (×) the probability that the spinner will land on **C**.



(1)

(b) On the probability scale, mark with a cross (×) the probability that the spinner will land on **D**.

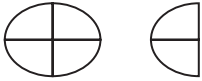


(1)

(Total for Question 3 is 2 marks)

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- 4 The incomplete pictogram shows information about the number of eggs sold from a farm shop on Monday.

Monday	
Tuesday	
Wednesday	

Key:
------

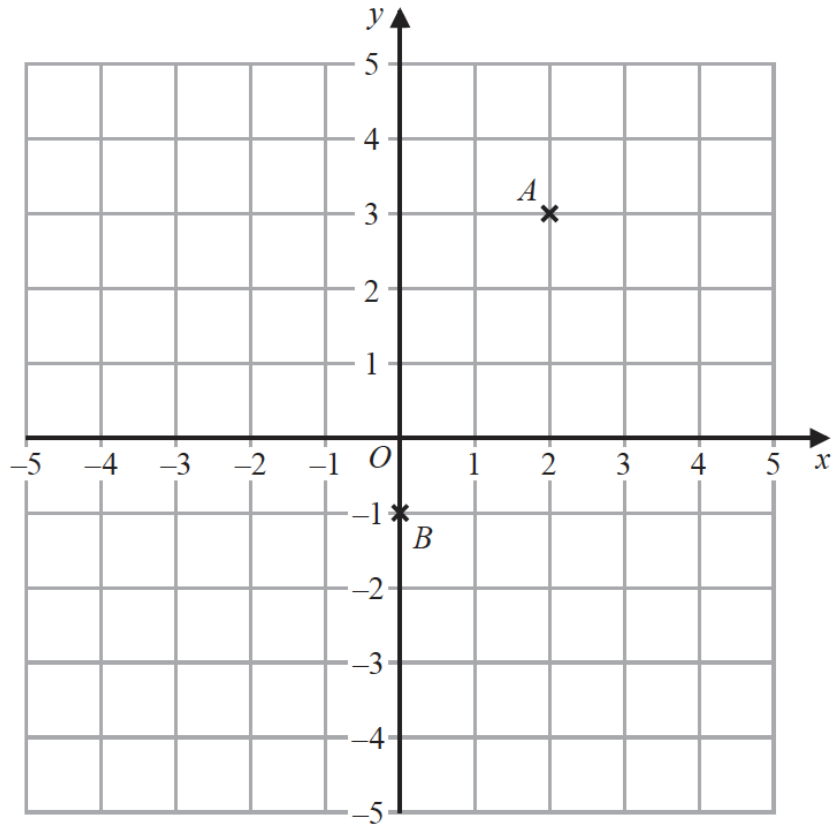
On Monday the shop sold 18 eggs.  
On Tuesday the shop sold 24 eggs.  
On Wednesday the shop sold 27 eggs.

Use this information to complete the pictogram and the key.

**(Total for Question 4 is 4 marks)**

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5



(a) Write down the coordinates of the point *A*.

(..... , .....)  
**(1)**

(b) Write down the coordinates of the point *B*.

(..... , .....)  
**(1)**

(c) On the grid, mark with a cross (×) the point  $(-2, 1)$   
Label this point *C*.

**(1)**

**(Total for Question 5 is 3 marks)**

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- 6 Ishmael asked 30 students at college to tell him the sport they each like the best from cricket or tennis or swimming.

11 of the 20 female students said swimming.

2 of the male students said tennis.

5 students said cricket.

The number of male students who said cricket was the same as the number of male students who said swimming.

Complete the two-way table.

	Cricket	Tennis	Swimming	Total
Male students				
Female students				20
Total				30

(Total for Question 6 is 3 marks)

---

7 Jenny has 12 marbles.

$\frac{1}{4}$  of these 12 marbles are large.

The rest of these 12 marbles are small.

Each large marble has a weight of 70 grams.

Each small marble has a weight of 50 grams.

Work out the total weight of the 12 marbles.

..... grams

**(Total for Question 7 is 4 marks)**

---

8 The diagram shows a number machine.



(a) Find the output when the input is 7

.....  
(1)

(b) Find the input when the output is 41

.....  
(2)

**(Total for Question 8 is 3 marks)**

---

9 Write  $\frac{9}{100}$  as a decimal.

.....  
(Total for Question 9 is 1 mark)

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**10** A number sequence starts 1 2 4

Emma says that the next term is 7

(a) Explain why Emma may be correct.

.....  
.....  
.....

**(1)**

Here are the first four terms of the sequence of triangle numbers.

1 3 6 10

(b) Find the 8th term of this sequence.

.....  
**(2)**

**(Total for Question 10 is 3 marks)**

---

- 11** Write these numbers in order of size.  
Start with the smallest number.

$6.72 \times 10^5$        $67.2 \times 10^{-4}$        $672 \times 10^4$       0.000 672

.....  
**(Total for Question 11 is 2 marks)**

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- 12** Sean pays £10 for 24 chocolate bars.  
He sells all 24 chocolate bars for 50p each.

Work out Sean's percentage profit.

..... %  
**(Total for Question 12 is 3 marks)**

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13 Heidi wants to make some biscuits using this recipe.

Makes 12 biscuits
125 g butter
200 g flour
50 g sugar

Heidi thinks that she has,

- 500 g butter
- 700 g flour
- 250 g sugar

Assuming that these weights are correct,

- (a) work out the greatest number of biscuits Heidi can make.  
You must show all your working.

.....  
(4)

Heidi is wrong.  
She has more than 250 g of sugar.

- (b) Does this affect the greatest number of biscuits Heidi can make?  
Give a reason for your answer.

.....  
.....  
.....  
(1)

**(Total for Question 13 is 5 marks)**

14 (a) Expand  $x(x - 4)$

.....  
(1)

(b) Factorise  $15y - 10$

.....  
(1)

(c) Solve  $7(f - 5) = 28$

$f =$  .....  
(2)

**(Total for Question 14 is 4 marks)**

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**TOTAL FOR PAPER IS 40 MARKS**