

Write your name here

Surname

Other names

**Pearson Edexcel**  
**Level 1/Level 2 GCSE (9 - 1)**

Centre Number

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Candidate Number

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# Mathematics

## Paper 2 (Calculator)

**Foundation Tier**

Mock Set 1 – Autumn 2016

**Time: 1 hour 30 minutes**

Paper Reference

**1MA1/2F**

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

### 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.*
- **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.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**



### Information

- The total mark for this paper is 80
- 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.

Turn over ►

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**PEARSON**





6 The first term of a sequence of numbers is 18  
The term-to-term rule for this sequence is “add 6”

(a) Is 603 a term of the sequence?  
You must explain your answer.

(1)

(b) Rizvi says,

“No terms of the sequence are multiples of 7”

Give an example to show Rizvi is wrong.

(1)

**(Total for Question 6 is 2 marks)**

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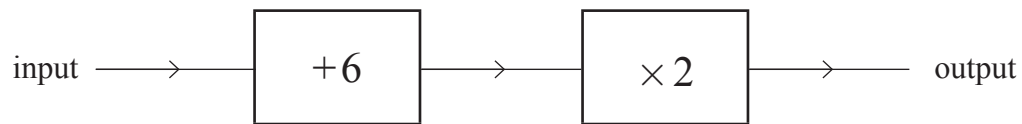


11 Daisy thinks of a whole number.  
She multiplies the number by 3  
Daisy's answer is 34

(a) Explain how you know Daisy's answer is wrong.

(1)

Here is a number machine.



Abbie says that when the output is 36 the input is 60

Here is her working.

$$36 - 6 = 30$$

$$30 \times 2 = 60$$

Abbie is wrong.

(b) Explain what she has done wrong.

(2)

(Total for Question 11 is 3 marks)





















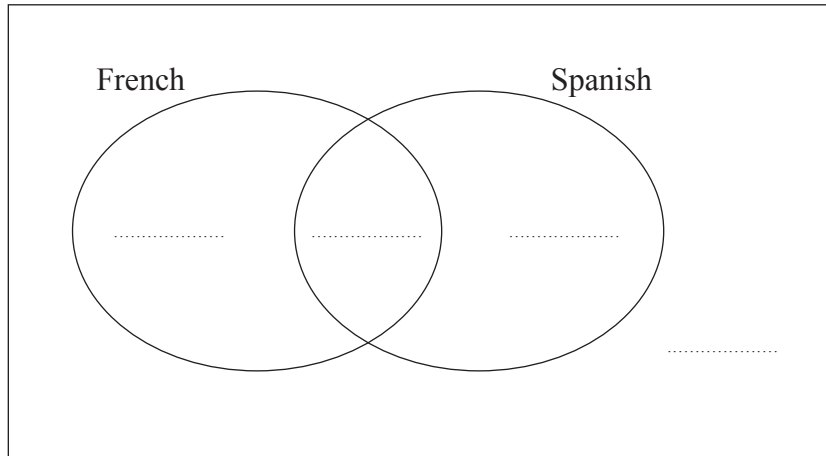
23 There are 60 students at a college.

20 students study both French and Spanish.

13 students study French but not Spanish.

A total of 43 students study Spanish.

(a) Complete the Venn diagram for this information.



(3)

One of the students at the college is to be selected at random.

(b) Write down the probability that this student studies neither French nor Spanish.

.....  
(1)

(Total for Question 23 is 4 marks)

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On the 11th day, the maximum daily temperature was 19°C.

- (c) Write down an estimate for the number of children going to the paddling pool on the 11th day.

.....  
(1)

It would not be sensible to use the scatter graph to predict the number of children going to the paddling pool on a day when the maximum daily temperature was 13°C.

- (d) Give a reason why.

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

**(Total for Question 25 is 4 marks)**





27 Solve the simultaneous equations

$$\begin{aligned}4x + y &= 10 \\ x - 5y &= 13\end{aligned}$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

**(Total for Question 27 is 3 marks)**

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29 Samir invests £350 in a savings account.  
He gets 2% per annum compound interest.

How much money will Samir have in the account at the end of 3 years?

£.....

(Total for Question 29 is 2 marks)

**TOTAL FOR PAPER IS 80 MARKS**



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