

Please check the examination details below before entering your candidate information

Candidate surname		Other names	
Centre Number		Candidate Number	
Pearson Edexcel Level 1/Level 2 GCSE (9-1)			
Odds - 39 marks			
45 minutes		Paper Reference 1MA1	
Mathematics (Calculator) Foundation Tier		Paper 2	
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.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



Information

- The total mark for this paper is 39.
- 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 questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write 478 to the nearest hundred.

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

3 Change 1.5 kilometres to metres.

..... metres
(Total for Question 3 is 1 mark)

5 Write 19% as a fraction.

.....
(Total for Question 5 is 1 mark)

7 There are four types of counter in a bag.
The table shows the number of each type of counter in the bag.

Type of counter	red circle	green circle	red square	green square
Number of counters	16	26	11	7

There are more green counters than red counters.
How many more?

.....
(Total for Question 7 is 2 marks)

9 Simplify $4e + 6f + 7e - f$

.....
(Total for Question 9 is 2 marks)

11 The table shows the costs of sending a parcel by the Express service and by the Rapid service.

Type of service	Cost
Express	£15.25
Rapid	£35.38

Brendan has to send 12 parcels.
It will be cheaper to send the parcels by the Express service than by the Rapid service.

(a) How much cheaper?

£.....
(3)

Luke wants to send 21 parcels by the Express service.
He does the calculation $20 \times £15 = £300$ to estimate the cost.

(b) Explain why Luke's calculation shows the actual cost will be more than £300

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

(Total for Question 11 is 4 marks)

13 The first term of a sequence of numbers is 24
The term-to-term rule of this sequence is ‘add 8’

Josie says,

“No number in this sequence is in the 5 times table.”

(a) Give an example to show that Josie is wrong.

.....
(1)

(b) Is 85 a number in this sequence?
Give a reason for your answer.

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

(Total for Question 13 is 2 marks)

- 15 You can use this rule to work out the total hire charge, in pounds (£), for hiring a 3D printer for a number of weeks.

$$\text{Total hire charge (£)} = \text{number of weeks} \times 70 + 50$$

Mia wants to hire a 3D printer for 4 weeks.

- (a) Work out the total hire charge.

£.....
(2)

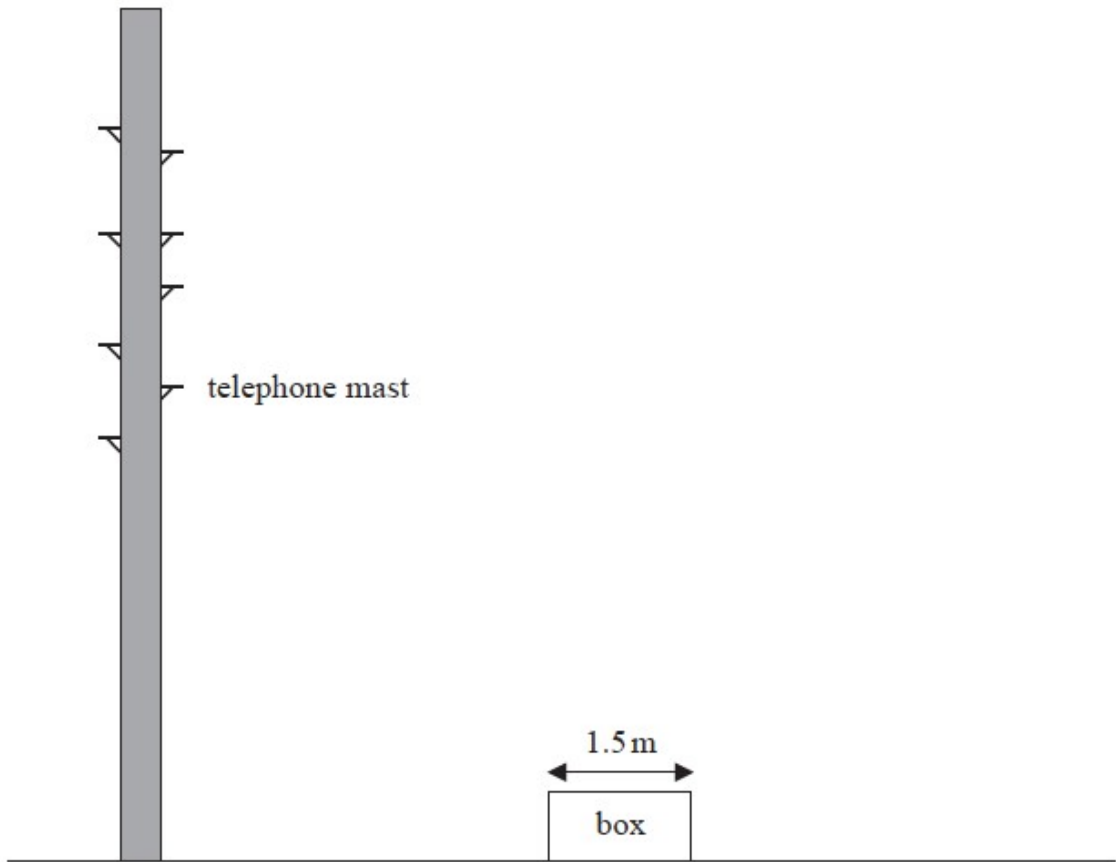
Zahir hires a 3D printer.
The total hire charge is £680

- (b) For how many weeks does Zahir hire the 3D printer?

..... weeks
(2)

(Total for Question 15 is 4 marks)

17 The accurate scale diagram shows a telephone mast and a box.



The box has a real width of 1.5 metres.

Find an estimate for the real height, in metres, of the telephone mast.

..... metres

(Total for Question 17 is 2 marks)

19 Make x the subject of the formula $y = 2x + 4$

.....
(Total for Question 19 is 2 marks)

21 Liz goes on holiday to South Africa.
Liz wants to change £850 into South African rand.
She wants to get as many 200 rand notes as possible.

The exchange rate is £1 = 18.53 rand.

Work out the greatest number of 200 rand notes that Liz can get for £850

.....
(Total for Question 21 is 3 marks)

23 Costcorp sells packets of mints to shop owners.

On Monday three shop owners buy mints from Costcorp.

Each shop owner buys small packets, medium packets and large packets of mints.

Alan buys 400 packets of mints.

32 % are small packets.

40 % are large packets.

Beryl buys 500 packets of mints.

$\frac{3}{10}$ are small packets.

$\frac{1}{10}$ are large packets.

Charlie buys 150 small packets of mints so that

number of small packets : number of medium packets = 3 : 4

Work out the total number of medium packets of mints these shop owners buy.

You must show all your working.

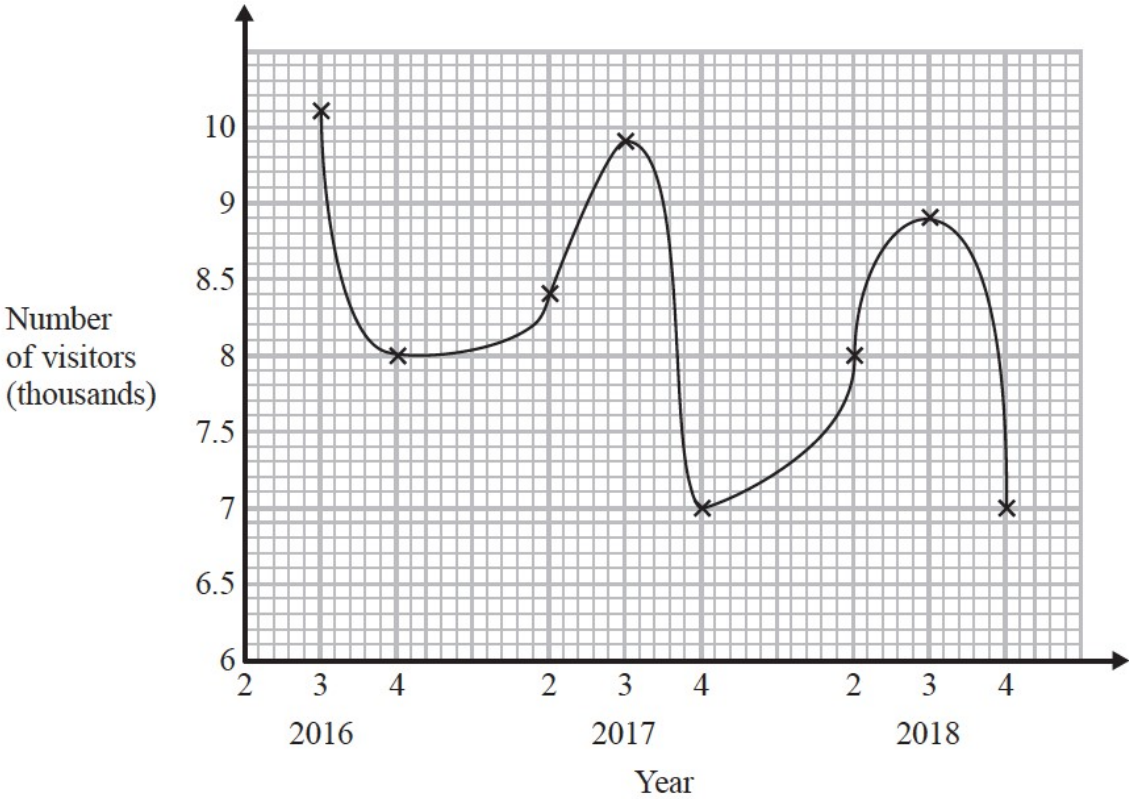
.....
(Total for Question 23 is 5 marks)

25 Katy invests £200 000 in a savings account for 4 years.
The account pays compound interest at a rate of 1.5 % per annum.
Calculate the total amount of interest Katy will get at the end of 4 years.

£.....

(Total for Question 25 is 3 marks)

27 Sean has drawn a time series graph to show the numbers, in thousands, of visitors to a fun park.



Write down two things that are wrong or could be misleading with this graph.

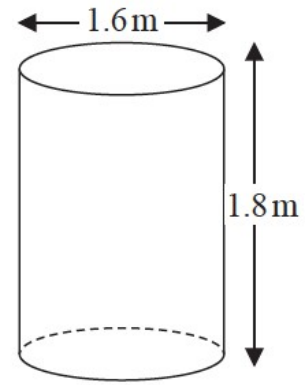
- 1
-
-
-
- 2
-
-
-

(Total for Question 27 is 2 marks)

- 29 Jeremy has to cover 3 tanks completely with paint.
Each tank is in the shape of a cylinder with a top and a bottom.
The tank has a diameter of 1.6 m and a height of 1.8 m.

Jeremy has 7 tins of paint.
Each tin of paint covers 5 m^2

Has Jeremy got enough paint to cover completely the 3 tanks?
You must show how you get your answer.



(Total for Question 29 is 5 marks)

TOTAL FOR PAPER IS 39 MARKS