

Write your name here

Surname

Other names

In the style of:

Edexcel GCSE

Centre Number

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Candidate Number

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Mathematics A

Algebra

Foundation Tier

Past Paper Style Questions
Arranged by Topic

Paper Reference

1MA0/1F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. 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 must not be used.**

Information

- The total mark for this paper is 100
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

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 ►



1. Peter thinks of a number.

He multiplies the number by 3
He then adds 2

His answer is 20

(a) What number did Peter think of?

Let x = Peter's number.

$$\text{Then } 3x + 2 = 20$$

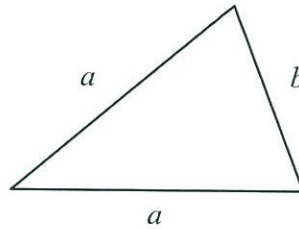
$$\Rightarrow x = \frac{20 - 2}{3} = \frac{18}{3} = 6$$

$$\underline{\quad 6 \quad} \quad (2)$$

Sophie uses the formula $P = 2a + b$
to find the perimeter P of this triangle.

(b) Find the value of P when

$$a = 6 \text{ and } b = 4$$



$$\begin{aligned} P &= 2(6) + 4 \\ &= 12 + 4 \\ &= 16 \end{aligned}$$

$$P = \underline{\quad 16 \quad} \quad (2)$$

(Total 4 marks)

2. (a) Work out the value of

(i) 4^2

$$\underline{\quad 16 \quad}$$

(ii) $\sqrt{64}$

$$\underline{\quad 8 \quad}$$

(iii) 3×2^3

$$\underline{\quad 24 \quad} \quad (3)$$

(b) Work out

(i) $-3 + 5$

$$\underline{\quad 2 \quad}$$

(ii) $-2 - 3$

$$\underline{\quad -5 \quad} \quad (2)$$



3. The cost of hiring a car can be worked out using this rule.

$$\text{Cost} = \text{£}80 + 50\text{p per mile}$$

Bill hires a car and drives 90 miles.

(a) Work out the cost.

$$\begin{aligned} C &= 80 + 0.5(90) \\ &= 80 + 45 \\ &= \text{£}125.00 \end{aligned}$$

$$\text{£ } \underline{125} \quad (2)$$

The cost of hiring a car and driving m miles is C pounds.

(b) Complete the formula for C in terms of m .

$$C = \underline{80 + 0.5m} \quad (2)$$

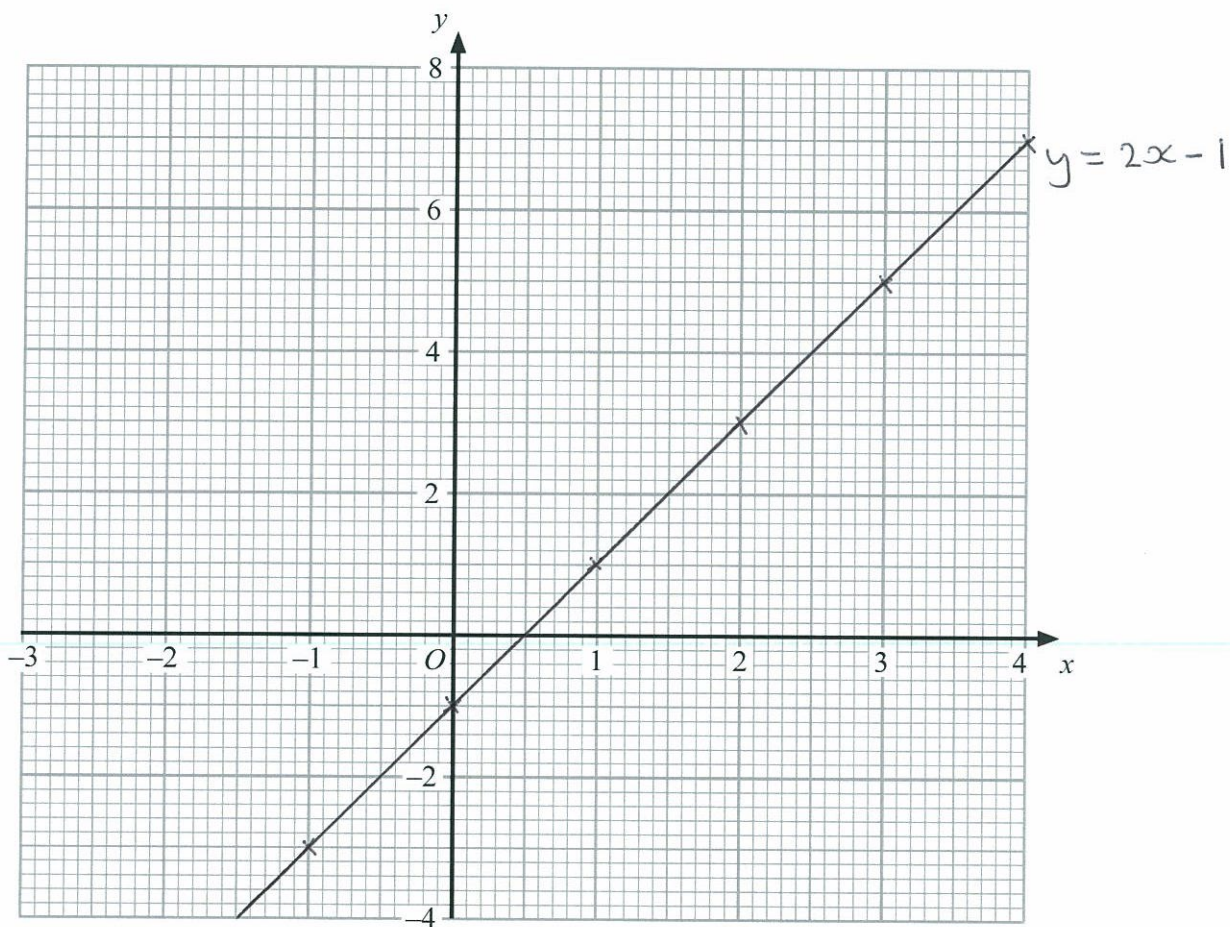
(Total 4 marks)



4. (a) Complete this table of values for $y = 2x - 1$

x	-1	0	1	2	3	4
y	-3	-1	1	3	5	7

(2)



(b) On the grid, draw the graph of $y = 2x - 1$

(2)

(Total 4 marks)

