



# EXAM PAPERS PRACTICE

GCSE Edexcel Maths  
1MA1  
Arithmetic

Question Paper

*"We will help you to  
achieve A Star "*



**Question 1**

Here is part of Gary's electricity bill.

| <b>Electricity bill</b> |            |
|-------------------------|------------|
| New reading             | 7155 units |
| Old reading             | 7095 units |
| Price per unit 15p      |            |

Work out how much Gary has to pay for the units of electricity he used.

[4 marks]

**Question 2**

(b)  $331\,705 \div 1.85$

[1 mark]



### Question 3

The diagram shows a patio in the shape of a rectangle.

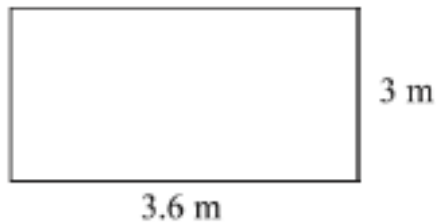


Diagram NOT  
accurately drawn

The patio is 3.6 m long and 3 m wide.

Matthew is going to cover the patio with paving slabs.  
Each paving slab is a square of side 60 cm.

Matthew buys 32 of the paving slabs.

- (a) Does Matthew buy enough paving slabs to cover the patio?  
You must show all your working.

[3 marks]

### Question 4

Use the fact that

$$5.4 \times 36 = 194.4$$

to find the value of

(i)  $5.4 \times 3.6$

(ii)  $54 \times 360$

[2 marks]



**Question 5**

A rectangle has an area of  $4 \text{ m}^2$ .

Write this area in  $\text{cm}^2$ .

[2 marks]

**Question 6**

Given that  $1793 \times 185 = 331\,705$

write down the value of

(a)  $1.793 \times 185$

[1 mark]

**Question 7**

Write down the reciprocal of 5

[1 mark]



**Question 8**

One sheet of paper is  $9 \times 10^{-3}$  cm thick.

Mark wants to put 500 sheets of paper into the paper tray of his printer.  
The paper tray is 4 cm deep.

Is the paper tray deep enough for 500 sheets of paper?  
You must explain your answer.

[3 marks]

**Question 9**

|   |
|---|
| <p><b>Train tickets</b></p> <p>day return £6.45</p> <p>monthly saver £98.50</p> |
|---|

Sue goes to work by train.

Sue worked for 18 days last month.

She bought a day return ticket each day she worked.

A monthly saver ticket is cheaper than 18 day return tickets.

How much cheaper?

[4 marks]



**Question 10**

Yesterday it took 5 cleaners  $4\frac{1}{2}$  hours to clean all the rooms in a hotel.

There are only 3 cleaners to clean all the rooms in the hotel today.

Each cleaner is paid £8.20 for each hour or part of an hour they work.

How much will each cleaner be paid today?

[3 marks]

**Question 11**

One sheet of A3 card has area  $\frac{1}{8}$  m<sup>2</sup>.

The card has a mass of 160 g per m<sup>2</sup>.

Work out the total mass of 25 sheets of A3 card.

[4 marks]



**Question 12**

Each day a company posts some small letters and some large letters.

The company posts all the letters by first class post.

The tables show information about the cost of sending a small letter by first class post and the cost of sending a large letter by first class post.

**Small Letter**

| Weight  | First Class Post |
|---------|------------------|
| 0–100 g | 60p              |

**Large Letter**

| Weight    | First Class Post |
|-----------|------------------|
| 0–100 g   | £1.00            |
| 101–250 g | £1.50            |
| 251–500 g | £1.70            |
| 501–750 g | £2.50            |

One day the company wants to post 200 letters.

The ratio of the number of small letters to the number of large letters is 3 : 2

70% of the large letters weigh 0–100 g.

The rest of the large letters weigh 101–250 g.

Work out the total cost of posting the 200 letters by first class post.

[5 marks]



**Question 13**

Henry is thinking of having a water meter.

These are the two ways he can pay for the water he uses.

**Water Meter**

A charge of £28.20 per year

**plus**

91.22p for every cubic metre of water used

1 cubic metre = 1000 litres

**No Water Meter**

A charge of £107 per year

Henry uses an average of 180 litres of water each day.

Use this information to determine whether or not Henry should have a water meter.

[5 marks]



**Question 14**

Saphia is organising a conference.

People at the conference will sit at circular tables.



Diagram **NOT**  
accurately drawn

Each table has a diameter of 140 cm.

Each person needs 60 cm around the circumference of the table.

There are 12 of these tables in the conference room.

A total of 90 people will be at the conference.

Are there enough tables in the conference room?

[4 marks]

**Question 15**

The diagram shows a plan of Brian's lawn.

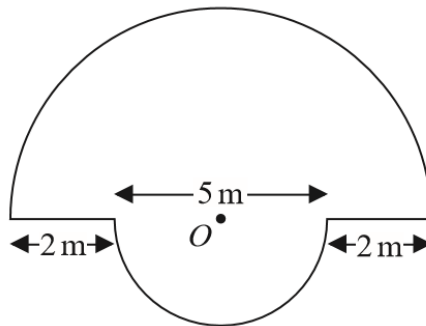


Diagram **NOT**  
accurately drawn

The edge of the lawn consists of two semicircles and two straight lines.  
Each semicircle has centre  $O$ .  
The diameters of the semicircles are 9 m and 5 m.

Brian is going to put lawn edging around the edge of the lawn.  
Lawn edging is sold in 2.4 metre rolls.

Brian has £35

Has Brian got enough money to buy all the rolls of lawn edging he needs?  
You must show all your working.

|  |
|--|
| <p><b>Lawn edging</b></p> <p>£3.99 per roll<br/>or<br/>3 rolls for £10</p> |
|--|

[5 marks]