		3 m	Diagram <b>NOT</b> accurately drawn
·	3.6 m		
The patio is 3.6 m	long and 3 m wide.		
	to cover the patio with pass a square of side 60 cm.		
Matthew buys 32 c	of the paving slabs.		
	buy enough paving slabwall your working.	os to cover the patio?	
			(3)
The paving slabs c	ost £8.63 each.		
(b) Work out the t	total cost of the 32 pavin	g slabs.	
			£(3)
			(6 marks)

1.

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

\*2. Mr Weaver's garden is in the shape of a rectangle.

In the garden

there is a patio in the shape of a rectangle and two ponds in the shape of circles with diameter 3.8 m.

The rest of the garden is grass.

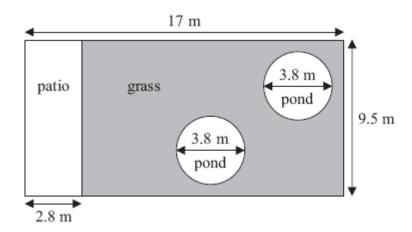


Diagram NOT accurately drawn

Mr Weaver is going to spread fertiliser over all the grass. One box of fertiliser will cover 25 m2 of grass.

How many boxes of fertiliser does Mr Weaver need? You must show your working.

(5 marks)

**\*3.** Henry is thinking about 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.

Henry wants to pay as little as possible for the water he uses. Should Henry have a water meter?

(5 marks)

	Electric	city bill		
	New reading Old reading	7155 units 7095 units		
	Price per	unit 15p		
Work out how mu	uch Gary has to pay for the	units of electricity he	used.	
				(4 ma)
				(4 ma)
At the start of the	ne cost of the gas he used la year, the gas meter reading year, the gas meter reading he used cost 44p.	g was 12967 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)
At the start of the At the end of the Each unit of gas h	year, the gas meter reading year, the gas meter reading ne used cost 44p.	g was 12967 units. g was 14059 units.		(4 ma)

Here is part of Gary's electricity bill.

**\*4.** 

**6.** Here is a diagram of Jim's garden.

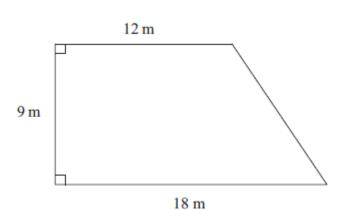


Diagram NOT accurately drawn

Jim wants to cover his garden with grass seed to make a lawn.

Grass seed is sold in bags.

There is enough grass seed in each bag to cover 20 m<sup>2</sup> of garden.

Each bag of grass seed costs £4.99

Work out the least cost of putting grass seed on Jim's garden.

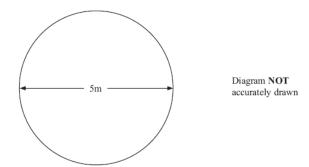
£	•••	•••	••	• •		••	•	••			•		•				• •	••	•	•					• •	•	•	•		•		•	•		•		• •		•	•
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(5 marks)

7. Jon has a flower garden in the shape of a circle. The diameter of the garden is 5 metres.

Jon wants to put fencing around the edge of the garden. The fencing costs £1.80 per metre.

Work out the total cost of the fencing.



£	 •••••	

(5 marks)

**8.** The diagram shows a CD.

The CD is a circle of radius 6 cm.

CDs of this size are cut from rectangular sheets of plastic. Each sheet is 1 metre long and 50 cm wide.

Work out the greatest number of CDs that can be cut from one rectangular sheet.

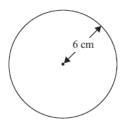


Diagram NOT accurately drawn

(4 1 )

(4 marks)

**\*9.** Jenny fills some empty flowerpots completely with compost.

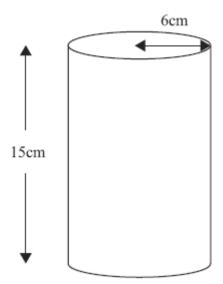


Diagram **NOT** accurately drawn

Each flowerpot is in the shape of a cylinder of height 15 cm and radius 6 cm. She has a 15 litre bag of compost.

She fills up each flowerpot completely. How many flowerpots can she fill completely? You must show your working.

(6 marks)