Please check the examination details below before entering your candidate information					
Candidate surname	Other na	ames			
Pearson Edexcel International GCSE	Centre Number	Candidate Number			
Tuesday 15 January 2019					
Morning (Time: 2 hours)	Paper Reference	• 4MA0/2FR			
Mathematics A Paper 2FR Foundation Tier	A				
You must have: Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.					

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.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators may be used.
- You must **NOT** write anything on the formulae page. Anything you write on the formulae page will gain NO credit.

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.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.





Turn over 🕨



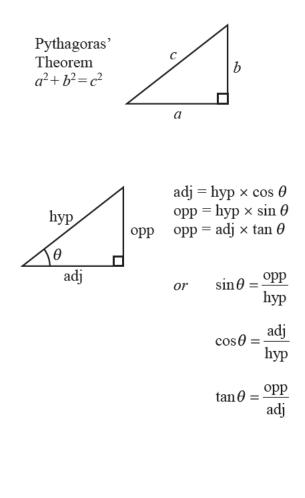


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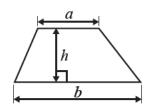
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International GCSE MATHEMATICS

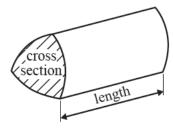
FORMULAE SHEET – FOUNDATION TIER



Area of a trapezium = $\frac{1}{2}(a+b)h$

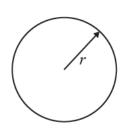


Volume of prism = area of cross section \times length



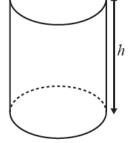
Circumference of circle = $2\pi r$

Area of circle = πr^2



Volume of cylinder = $\pi r^2 h$

Curved surface area of cylinder = $2\pi rh$





Answer ALL TWENTY FIVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The pictogram gives information about the number of pizzas sold from a shop on Monday, on Tuesday, on Wednesday and on Thursday one week.

Monday	$\oplus \oplus$
Tuesday	$\bigoplus $
Wednesday	\bigcirc
Thursday	\bigcirc
Friday	

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Key:	\bigoplus	represents 12 pizzas	
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(a) Write down the number of pizzas sold from the shop on Monday.

(b) Write down the number of pizzas sold from the shop on Wednesday.

(1)30 pizzas were sold from the shop on Friday.(c) Show this information on the pictogram.

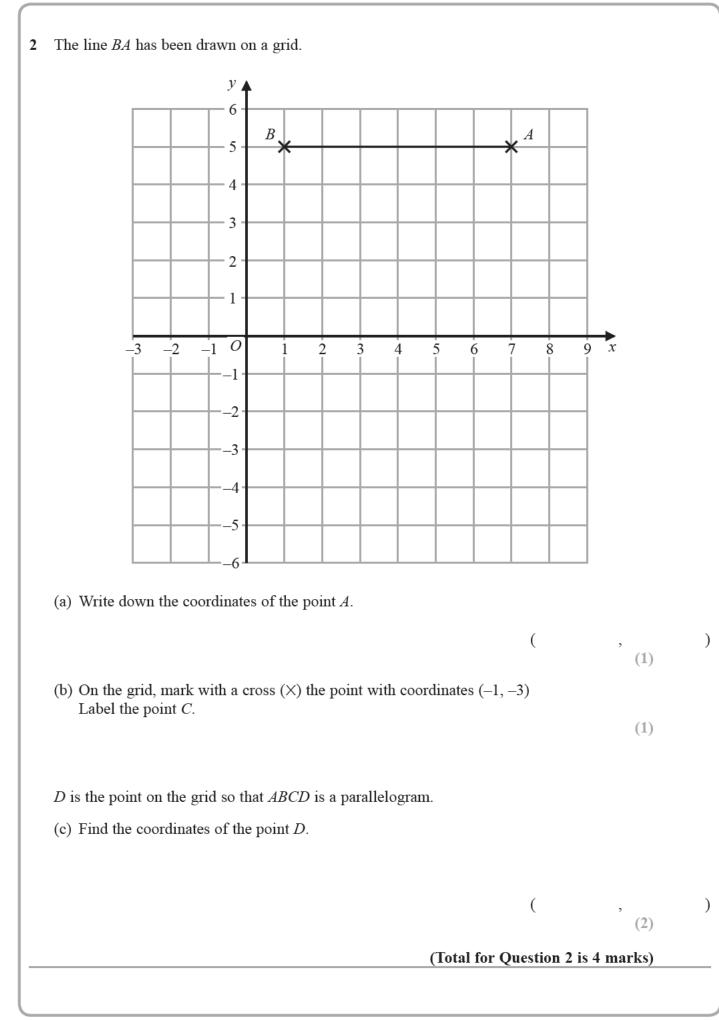
(Total for Question 1 is 3 marks)



(1)

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3 The incomplete table gives some information about the percentages of his income that Mr Chowdhury spent last month.

Item	Percentage of income
food	13%
housing	16%
leisure	8%
clothes	5%
transport	15%
furniture	20%
other items	%

(a) Complete the table to show the percentage of Mr Chowdhury's income spent on other items.

Mr Chowdhury spent 16% of his income on housing.

(b) Write 16% as a decimal.

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Mr Chowdhury spent 13% of his income on food.

(c) Write 13% as a fraction.

Mr Chowdhury's income was 8000 taka last month.

(d) Work out 15% of 8000

(2)

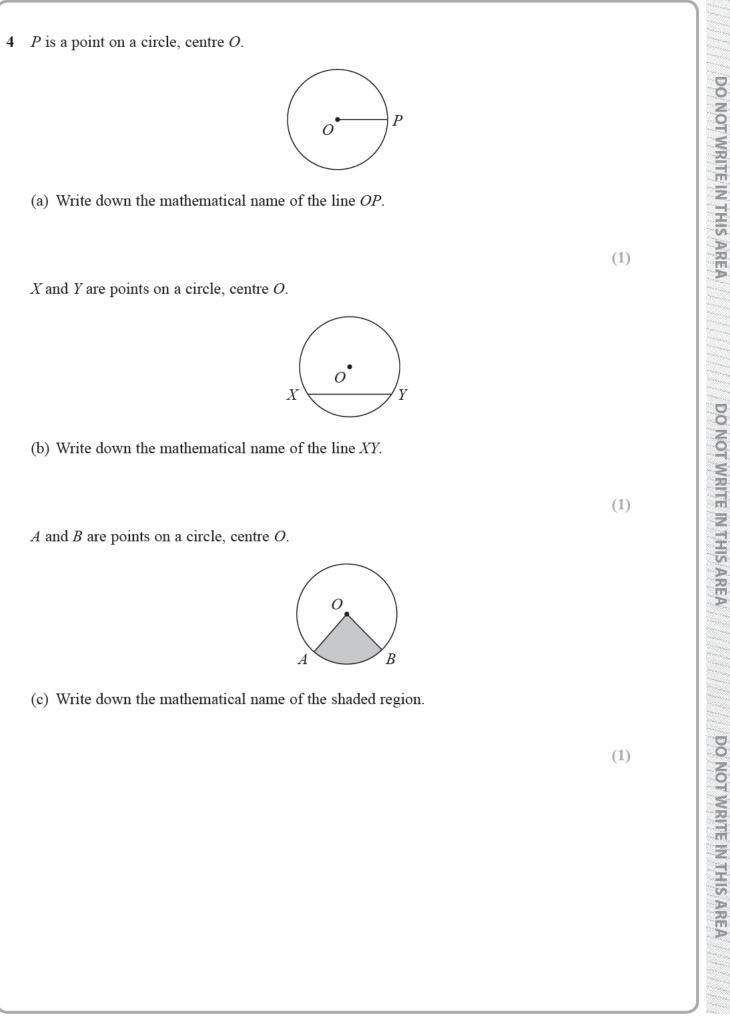
(2)

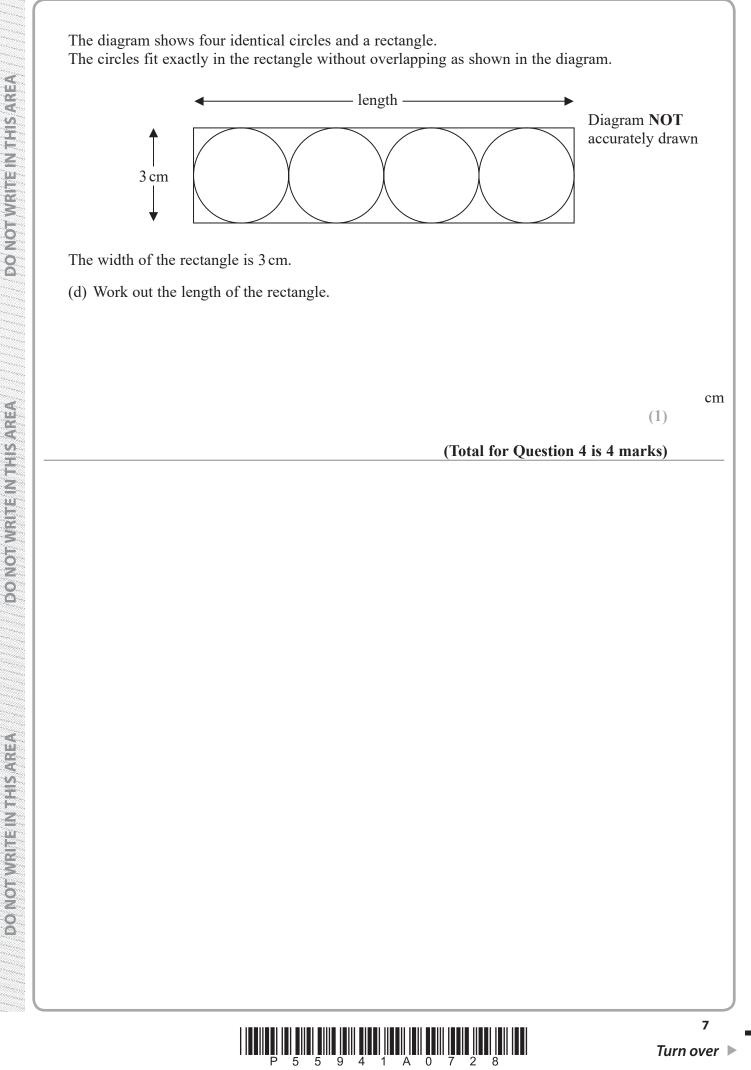
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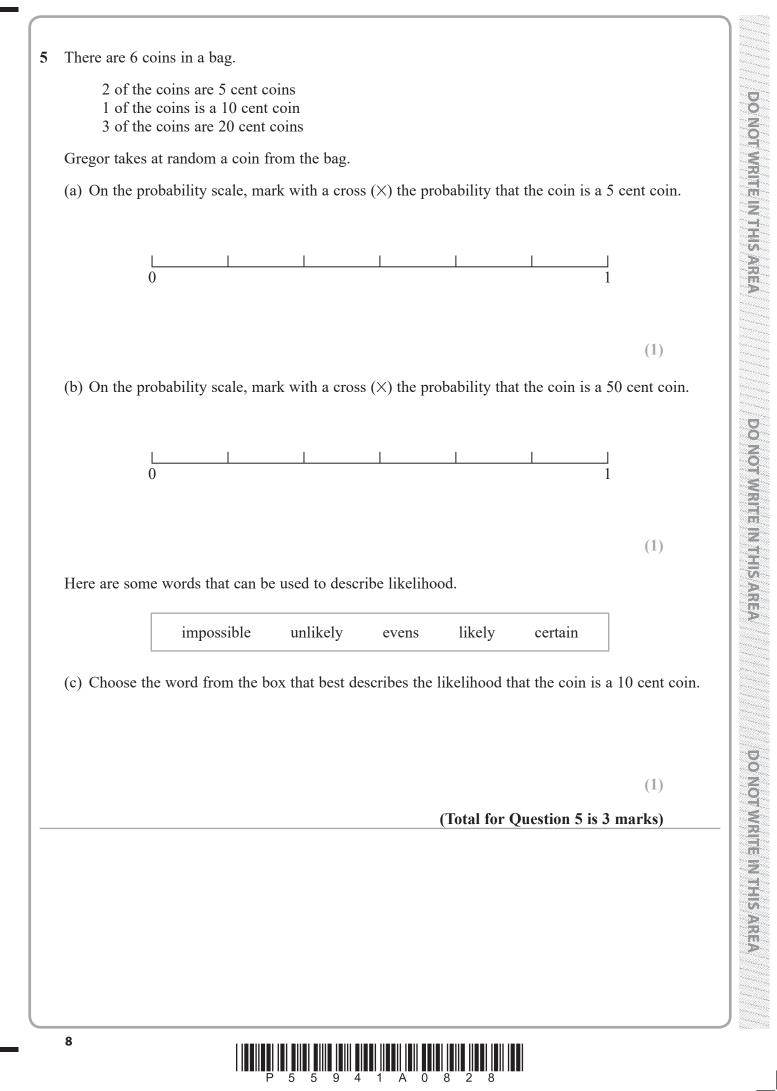
(1)

(Total for Question 3 is 6 marks)



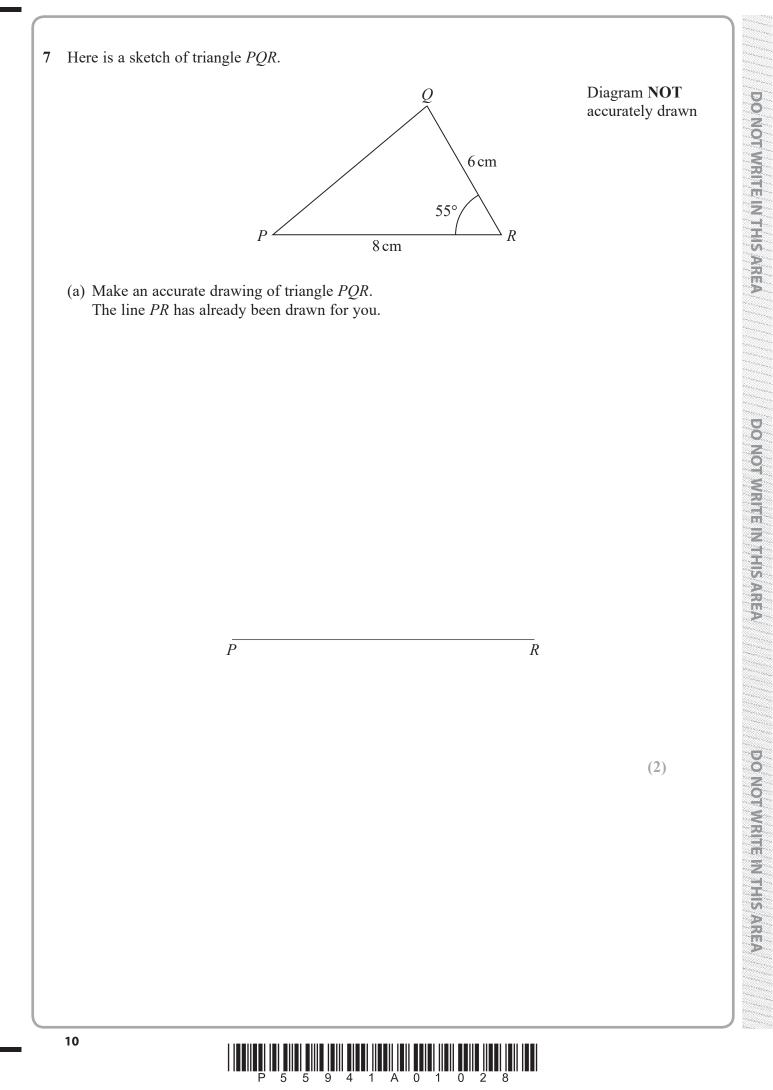


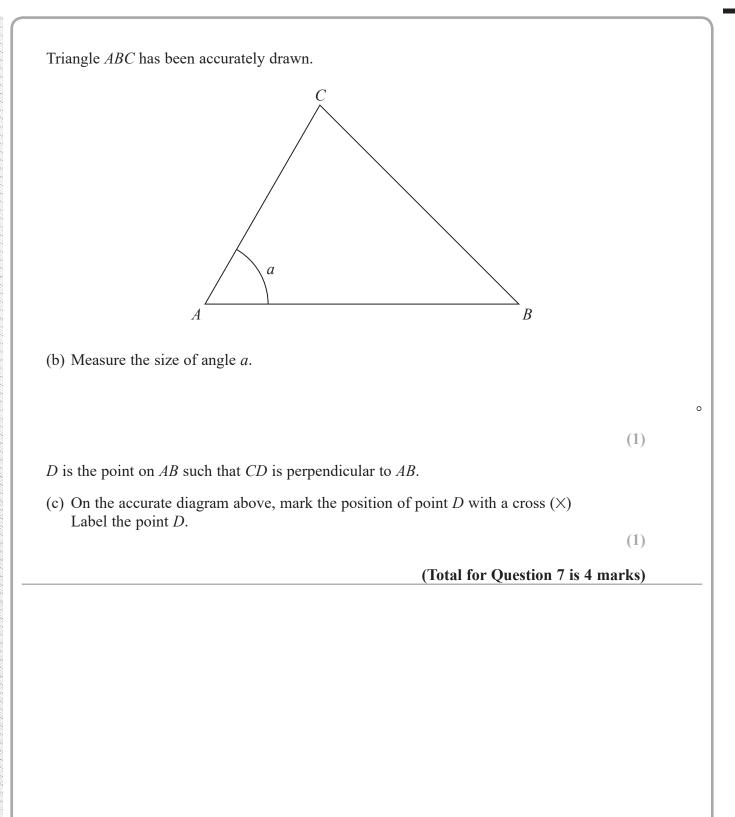




Here are t 330	330	250 250	ey, in euro 290	os, earned 350	last week	t by 10 wo 310	orkers in a 370	company 320	r. 300)
(a) Work			270	550	550	510	570	520	500	,
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(b) Work	out the m	iedian.							(2)	
									(2)	euros
(c) Find t	he mode.									
									(1)	euros
(d) Work	out the ra	inge.								
										euros
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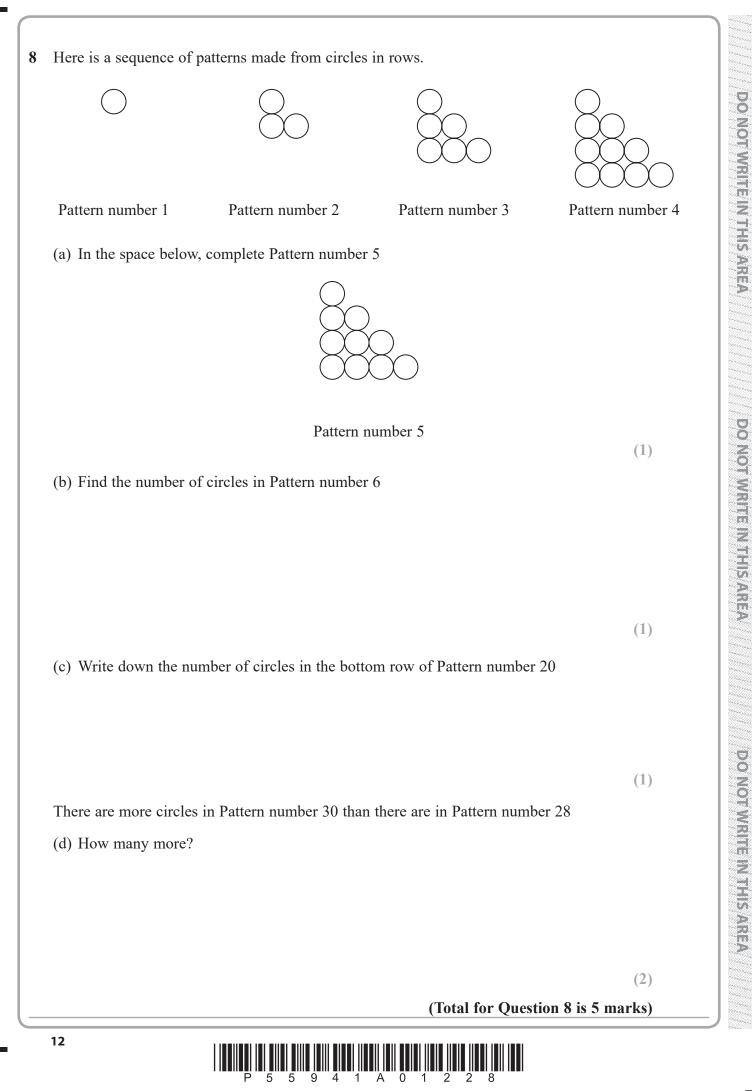




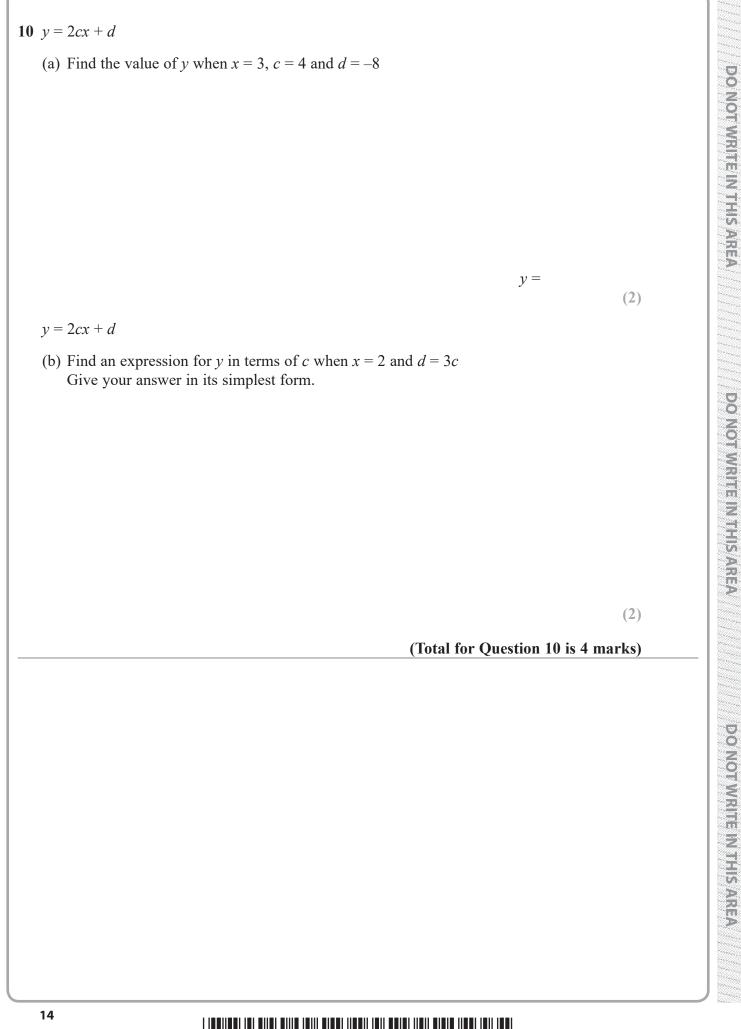
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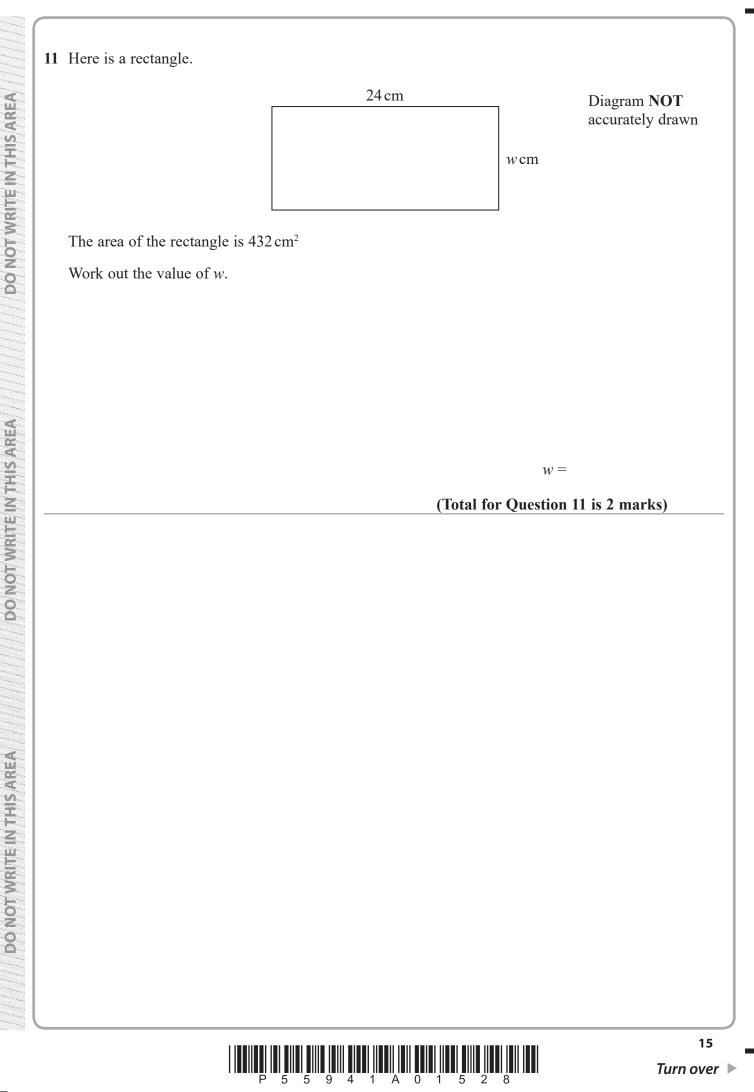


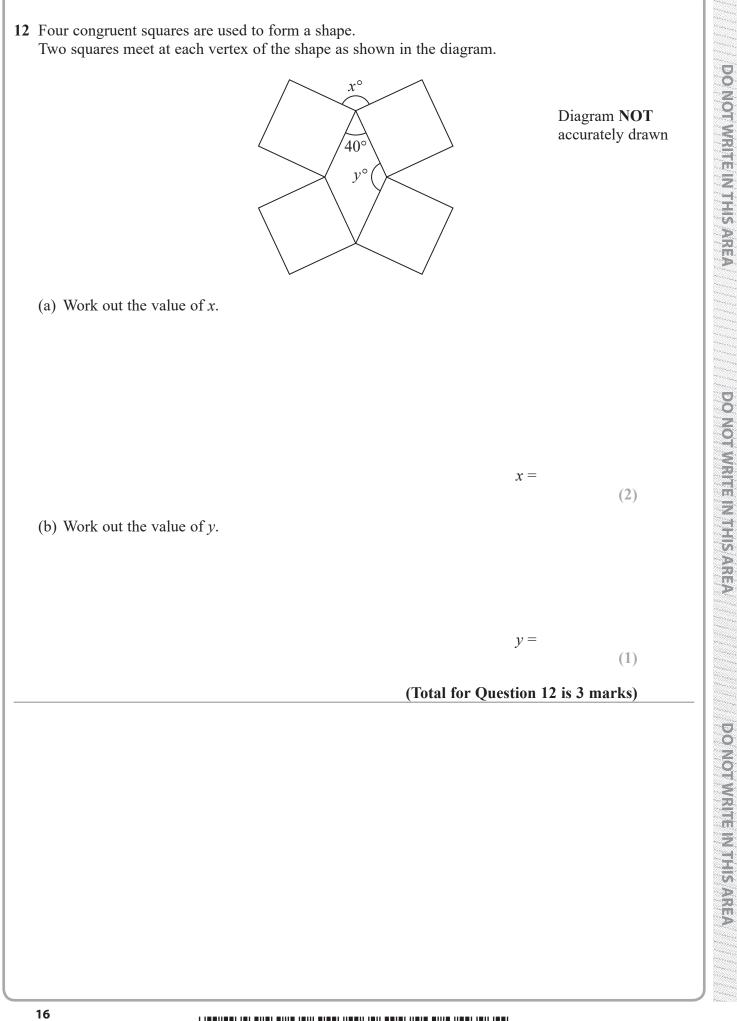


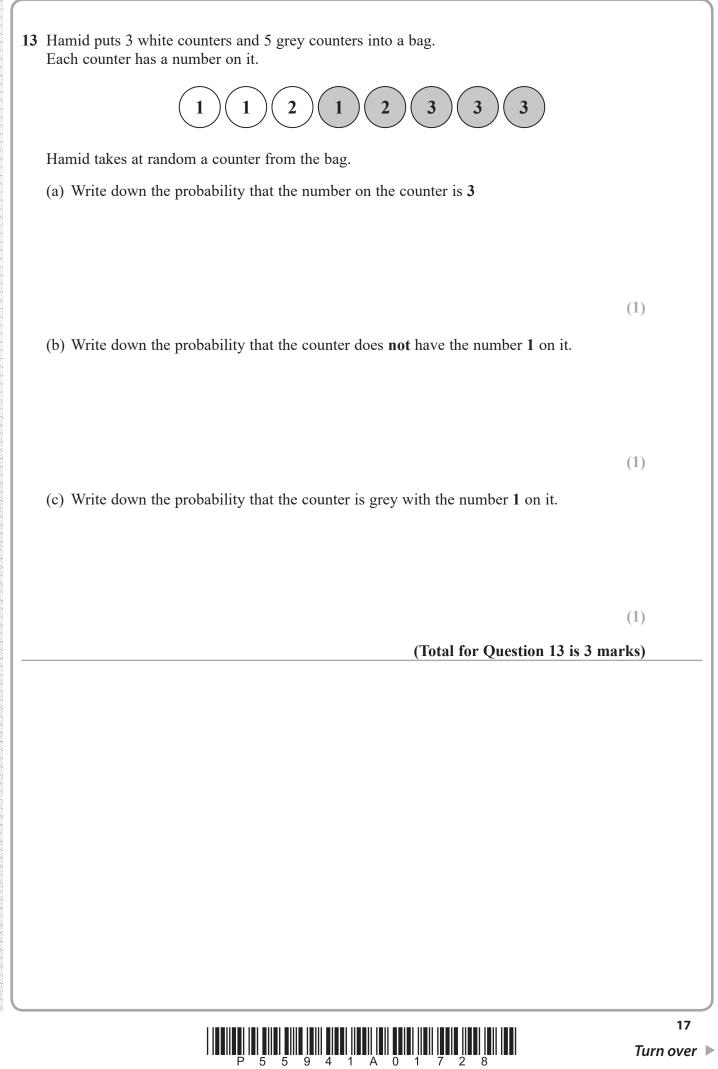
9	(a) Find two factors of 36 that have a sum greater than 14 but less than 20	
	(a) This two factors of 50 that have a sum greater than 14 but less than 20	
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	N is an even number greater than 50	
	Two factors of the number N are 3 and 5	
EA	(b) Write down a possible value of <i>N</i> .	
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- 12	(Total for Question 9 is	4 marks)
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P 5 5 9 4 1 A 0 1 4 2 8







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14 In a factory, 3 machines each make bottles.

Two of the machines each make 14 bottles every hour. The other machine makes 18 bottles every hour.

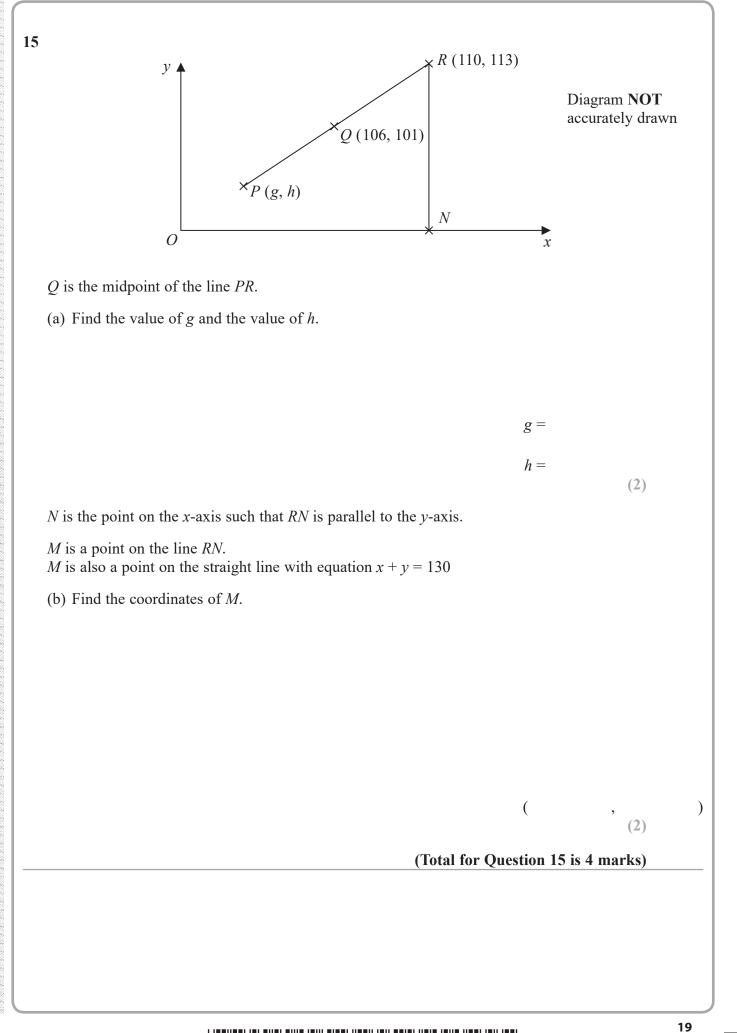
Each machine makes bottles 24 hours a day. Each machine makes bottles 7 days a week.

When made, the bottles are stored in crates. When full, each crate holds 120 bottles.

How many crates are needed to store all the bottles made by the 3 machines in a week?

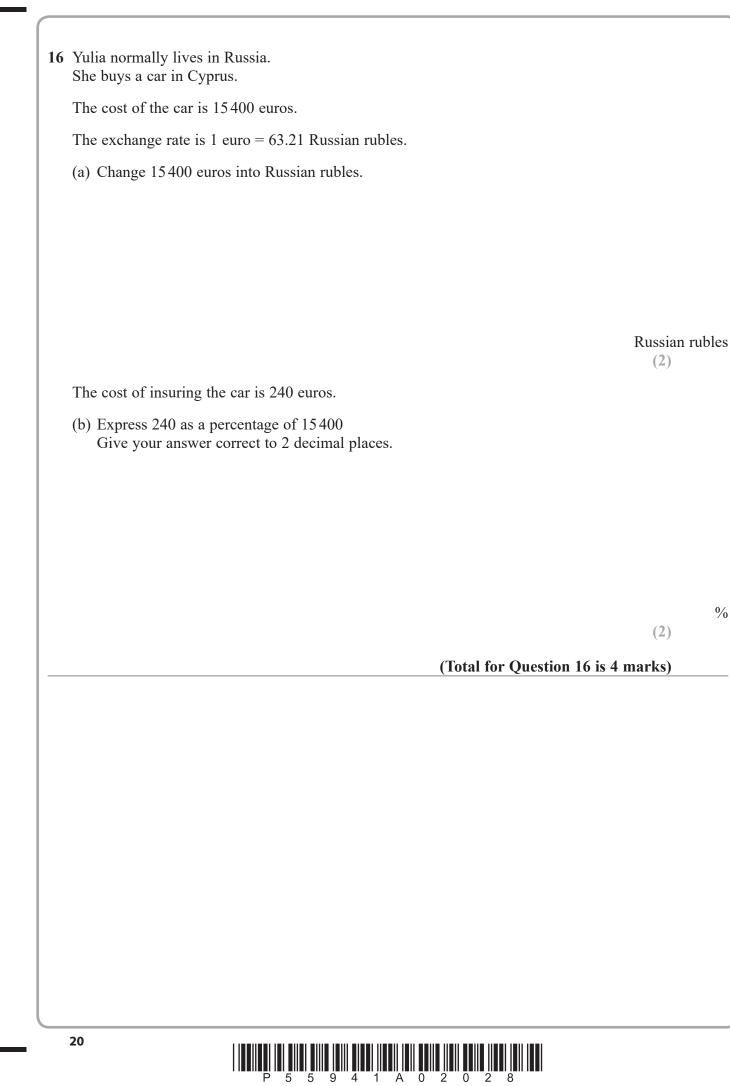
(Total for Question 14 is 4 marks)





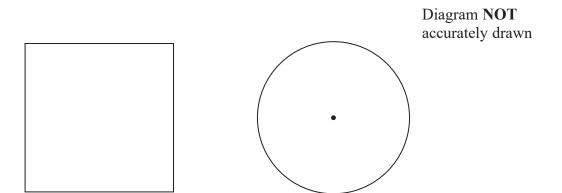
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%

17 The diagram shows a square and a circle.



The square has area $400\,\text{cm}^2$

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The diameter of the circle is equal to the length of a side of the square.

Work out the circumference of the circle. Give your answer correct to 1 decimal place.

cm

(Total for Question 17 is 3 marks)



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18 An aeroplane takes 11 hours 40 minutes to fly from London to Mauritius. The aeroplane flies a distance of 9720 kilometres.

Work out the average speed of the aeroplane. Give your answer in kilometres per hour, correct to the nearest whole number.

kilometres per hour

(Total for Question 18 is 3 marks)



19 The length of a car is 472 centimetres.

Mikhail makes a scale model of the car using a scale of 1:20

(a) Work out the length of the scale model.

centimetres

(2)

Alis makes a scale model of a bus.

The length of the real bus is 10.8 metres. The length of the scale model is 60 centimetres.

Alis uses a scale of 1:n where *n* is a whole number.

(b) Find the value of *n*.

n =

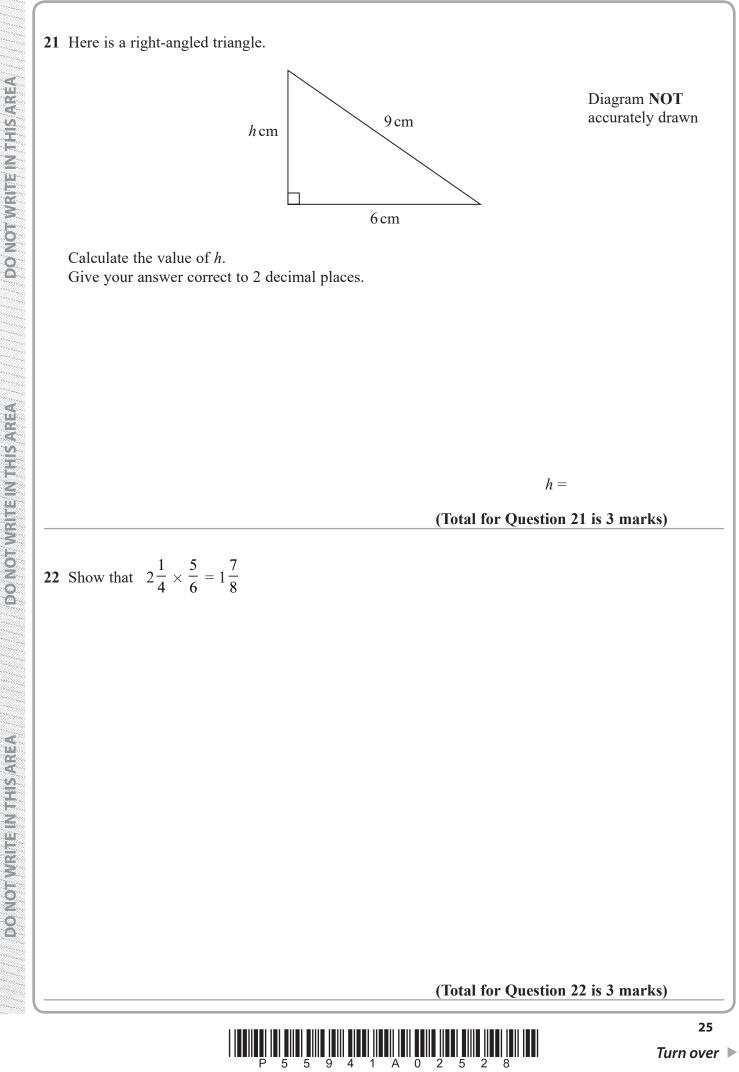
(3)

(Total for Question 19 is 5 marks)

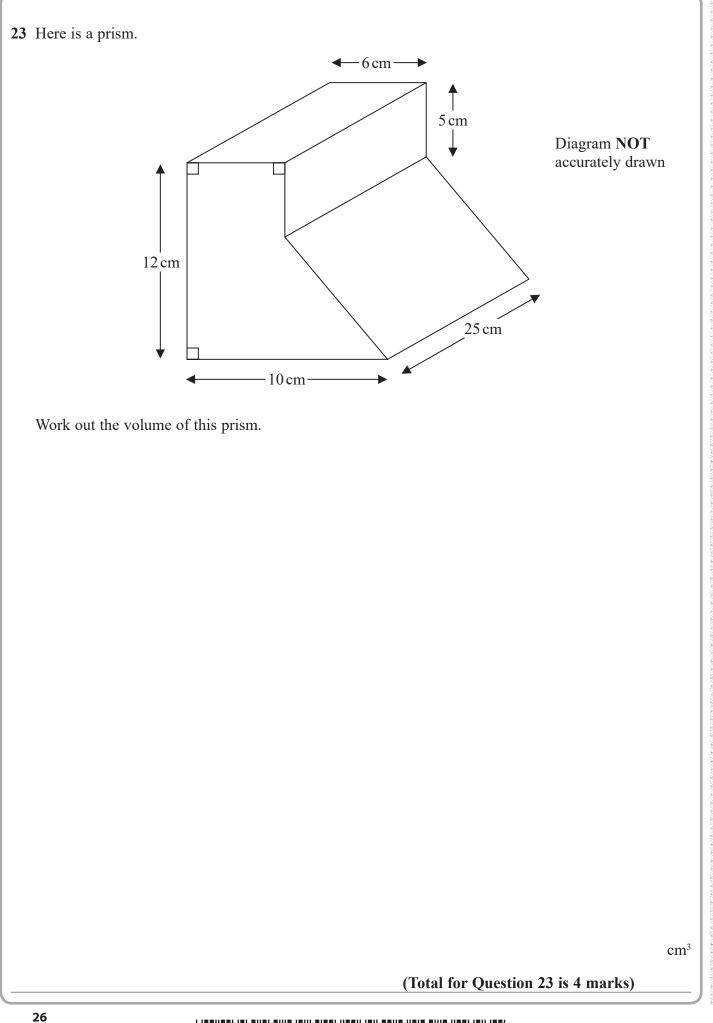




P 5 5 9 4 1 A 0 2 4 2 8



8



P 5 5 9 4 1 A 0 2 6 2 8

24 Eugenia bought 120 watches at 50 dollars each.

She sold $\frac{3}{4}$ of the watches at 80 dollars each. She then sold all the remaining watches at 40 dollars each.

Work out her percentage profit.

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(Total for Question 24 is 4 marks)



