Candidate surname	Other names
the second secon	Guess Paper – 3F Calculator

Within this booklet you will find my best guess at what might be on the next edexcel gcse maths paper.

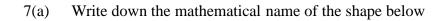
There may be other topics that appear on paper 3, so please ensure that you continue to revise all topics.

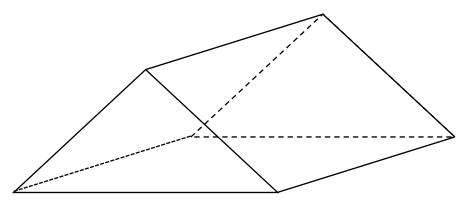
The paper consists of 27 questions totalling 80 marks.



earners		
1	Round 37.68 to 1 decimal place	
		(Total for Question 1 is 1 mark)
2	Write down two factors of 15	
3	Write down the value of the digit 5 in the n	(Total for Question 2 is 1 mark) umber 450.98
		(Total for Question 3 is 1 mark)
4	Simplify $6a + a - 4a$	
		(Total for Question 4 is 1 mark)
5	Work out 20% of 180	
		(Total for Question 5 is 1 mark)
6	Solve $\frac{x}{2} = 5.5$	
		(Total for Question 6 is 1 mark)







(b) Using the shape above,

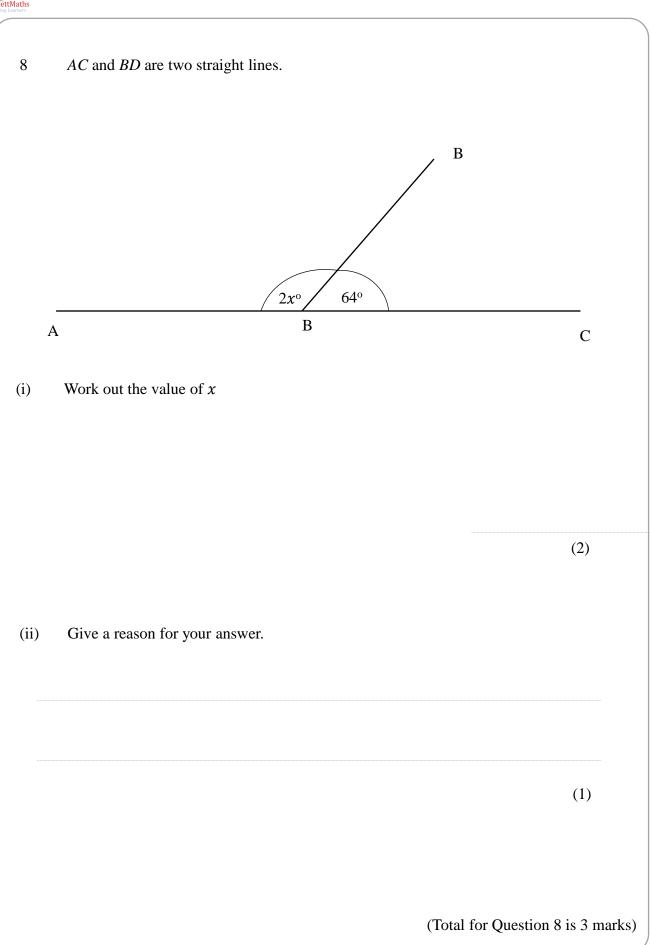
- (i) Write down the number of edges
- (ii) Write down the number of vertices

(1)

(1)

(1)







⁹ 10 2 19

Four cards have a number written on them. One of the cards is turned over. The mean average of the four numbers is 7.5.

Write down the number that is on the turned over card.

(Total for Question 9 is 3 marks)



10(a)	Expand $3(2x - 4)$	
10(b)	Factorise fully $12x + 40y$	(1)
10(0)	Factorise fully $12x + 40y$	
10(c)	Simplify $(a^3)^5$	(1)
		(1)
10(d)	Solve $5(x+8) = -11x$	
		(3)
	(Tot	al for Question 10 is 6 marks



There are red, blue and green counters in a bag.The ratio of red counters to blue counters to blue counters is 5 : 6 : 7.

Write down the fraction of the counters that are Blue. Give your answer in its simplest form.

(Total for Question 11 is 2 marks)

12 The recipe for 12 cookies is given below

12 Cookies

1kg of flour

800g of butter

500g of sugar

Amy is going to make 18 cookies. Work out how much of each ingredient is required. Give your answers in grams.

flour	g
butter	g
sugar	g

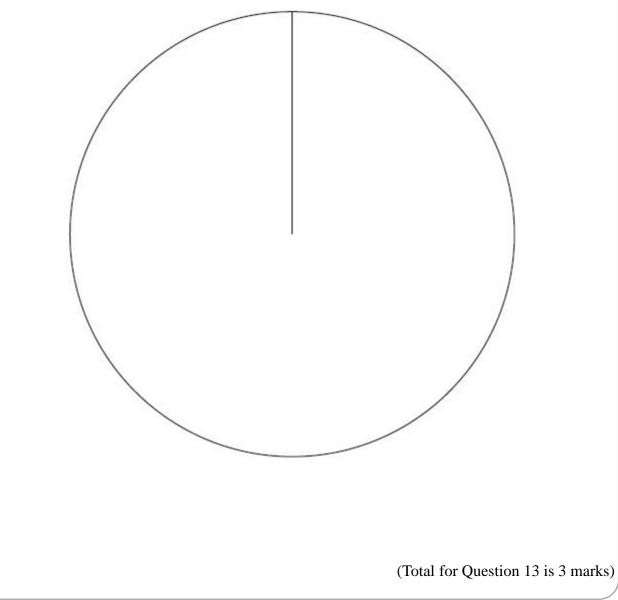
(Total for Question 12 is 3 marks)



13 The frequency table below shows the favourite sport of 45 students

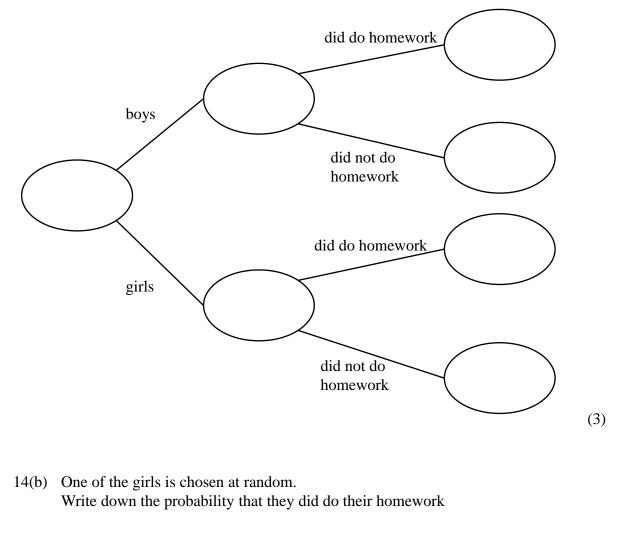
Sport	Frequency
athletics	13
cycling	17
swimming	8
gymnastics	7

Draw an accurate pie chart to represent this information





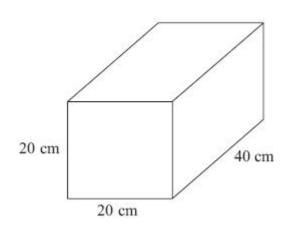
- 14 360 students have some homework.150 of the students were boys.12 of the 49 students that did not do their homework were girls.
 - (a) Use this information to complete the frequency tree.



(Total for Question 14 is 5 marks)



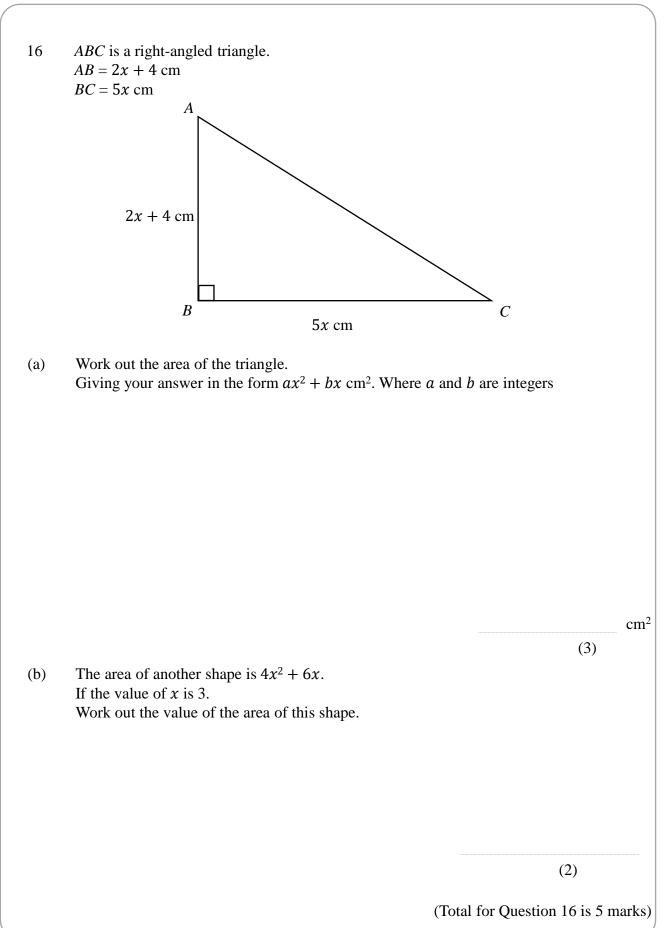
15 Below is a cuboid



Work out the volume of the shape above stating your units.

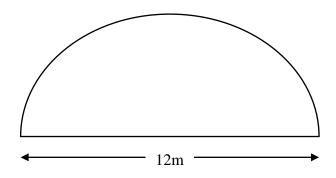
(Total for Question 15 is 3 marks)







17 Mr Scott's garden is in the shape of a semi-circle. The diameter of the semi-circle is 12 metres.



He is going to cover 46% of the garden with flowers.

The remainder of the garden will be covered with grass seeds

A box of grass seeds covers $4m^2$ and costs £5.99

Work out the total cost of the grass seeds to cover the remainder of his garden.

	~			
	•			
-	-			
0	Y			

(Total for Question 17 is 5 marks)



18(a) Convert 3.45 x 10^4 into an ordinary number

18(b) Convert 0.00672 into standard form

(1)

(1)

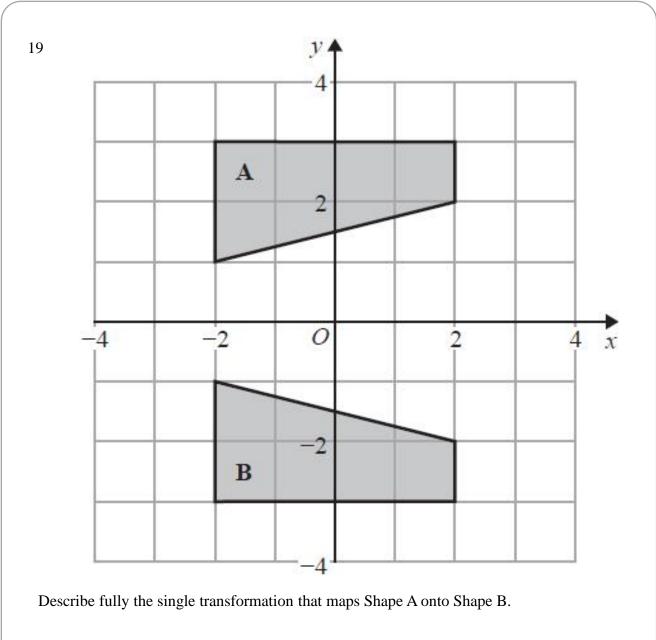
18(c) Work out the value of

 $\frac{(1.3 \times 10^4) + (6.6 \times 10^3)}{(2.45 \times 10^2)}$

Giving your answer in standard form

(2)





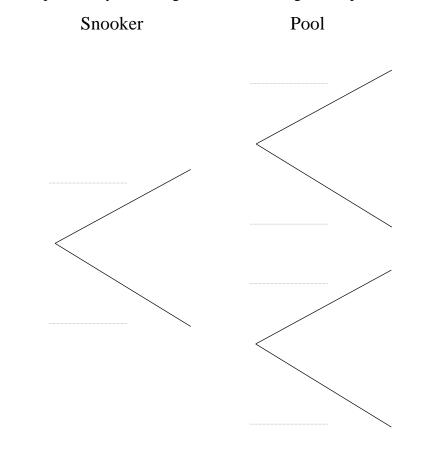


20	The exchange rate for pound sterling to euros is 1 : 1.17
20	
	Charlotte is going to travel to Spain, that uses the Euro currency. She wants to convert £350 into Euros.
(a)	Work out the amount of Euros that Charlotte will receive.
	(2)
(b)	The exchange increases to 1 : 1.18. How will this affect the answer to part (a)
	(1)
	(1) (Total for Question 20 is 3 marks)
21	Make x the subject of the formula
	$y = x^2 - 3p$

(Total for Question 21 is 2 marks)



22(a) Margot is going to play one game of snooker and one game of pool. The probability that Margot wins a game of snooker is 0.9. The probability that Margot does not win a game of pool is 0.3.



(2)

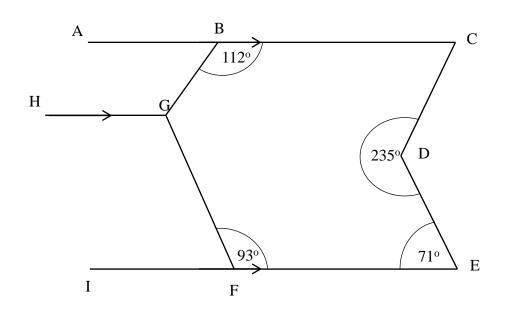
22(b) Work out the probability that Margot wins at both snooker and pool.

(2)

(Total for Question 22 is 4 marks)



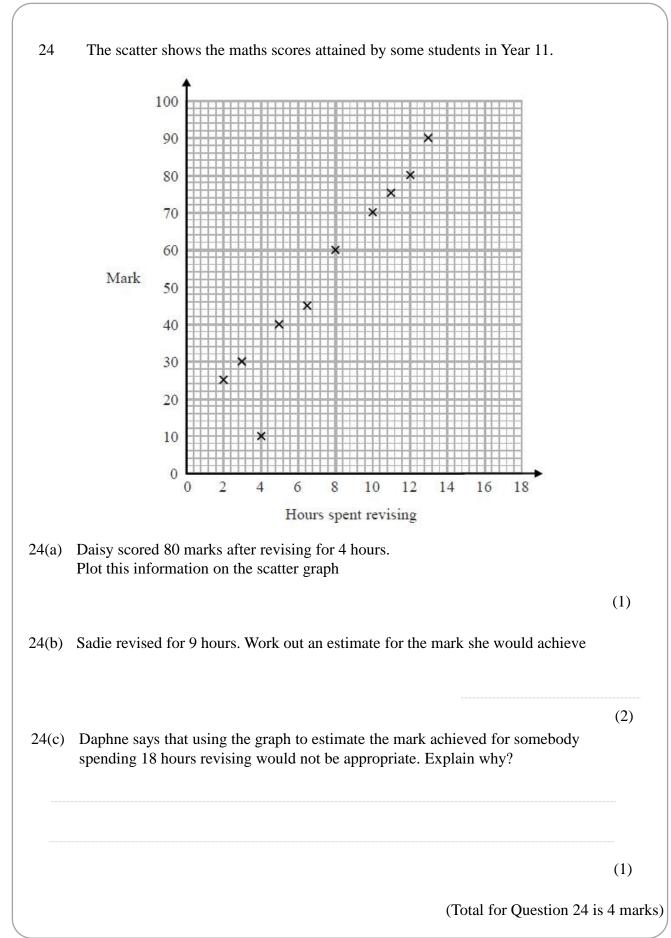
23 Shape BCDEFG is an irregular hexagon. Lines AC, HG & IE are parallel.



Work out the size of angle BCD

(Total for Question 23 is 5 marks)



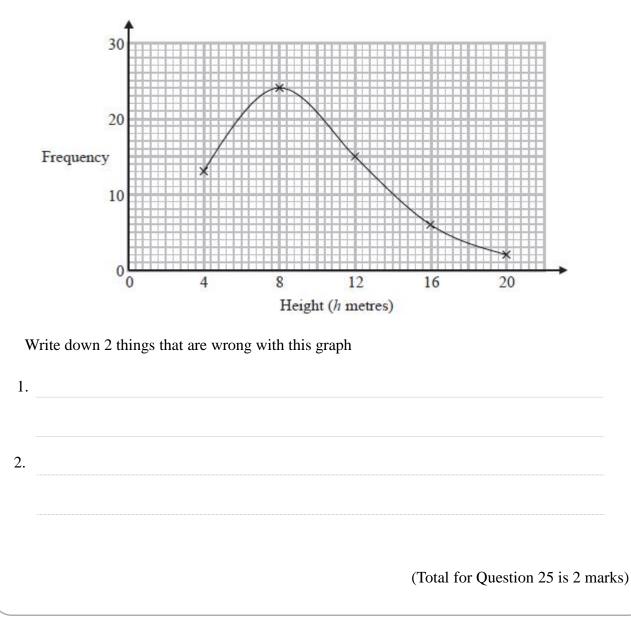




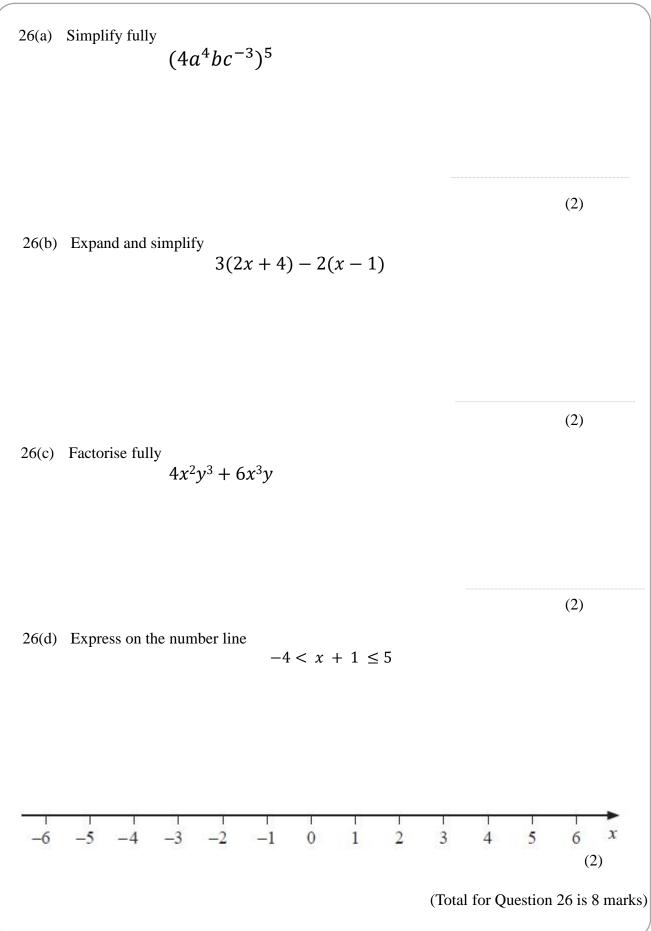
25 The table shows the heights of 60 trees

Height (<i>h</i> metres)	Frequency
$0 < h \leqslant 4$	13
$4 < h \leq 8$	24
$8 < h \leqslant 12$	15
$12 < h \leq 16$	6
$16 < h \leq 20$	2

Freddie plots the frequency polygon below









A number, n, is rounded to 2 significant figures.The result is 26.Complete the error interval for n

 $\leq n <$

(Total for Question 27 is 2 marks)