Please check the examination details below before entering your candidate information				
Candidate surname	Other names			
Centre Numbe	r Candidate Number			
Mathematics				
Hannah Kettle Hannah Kettle Hannah Kettle Higher Tier				
Best Guess Paper 3H – 11 th Jur	ne 2025			
 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 <i>- there may be more space than you need.</i> You must show all your working. Diagrams are NOT accurately drawn, unless otherwise indicated. Calculators may be used where indicated, but not otherwise. If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise. 				

Disclaimer: No-one can ever be sure what will definitely appear on the GCSE Maths Papers. I have put this paper together based on common topics we often see on Paper 3, now that we've seen Paper 1&2. I hope you find it helpful!

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Answer ALL questions.



Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The frequency table gives information about the length of 45 small sharks.

Length (<i>l</i> cm)	Frequency
$0 < l \le 5$	3
$5 < l \le 10$	9
$10 < l \le 15$	12
$15 < l \le 20$	15
20 < <i>l</i> ≤ 25	6

On the grid, draw a frequency polygon for the information in the table.





4	Manon invests £3000 in a savings account for 5 years.	
	The savings account pays compound interest at a rate of 2.4% per annum.	



SOLUTIONS

Calculate the total amount of interest Manon will have after 5 years?

(Total for Question 4 is 3 marks)

.....

5 Austin is planning a holiday to Thailand for 10 nights.

The flights will cost £685 for a return journey. The hotel costs 900 Thai Baht per night. The exchange rate is $\pounds 1 = 40.92$ Thai Baht

Calculate the total cost of the flight and hotel. Give your answer in pounds.

£.....

(Total for Question 5 is 3 marks)

6	A number <i>h</i> is written correct to 2 significant figures. The result is 4.2 Complete the error interval for <i>x</i> .	/IDEO)
	$\leq h <$	arks)
1	An exam 1s out of 80 marks. 40% of the paper covers Geometry and Statistics. The rest of the marks in the paper cover Number, Algebra and Ratio in the ratio 6 : 5 : 5	
	How many marks were allocated to Number?	
	(Total for Question 7 is 3 n	narks)
8	It takes 3 builders 12 days to build a wall.	
	(a) How many days would it take 4 builders to build the same wall?	
	(b) State one assumption you made in working out your answer to part (a).	2)
	(Total for Question 8 is 3 ma	 1) rks)



(Total for Question 10 is 4 marks)



13 Here are the first terms of a sequence. 0 3 10 21 36 SOLUTIONS (a) Find an expression, in terms of *n*, for the *n*th term of this sequence. (3) (b) Find the 14th term of this sequence. (1) (Total for Question 13 is 4 marks)





17



$$t = \frac{a-2b}{b^2}$$

a = 42.1 correct to 1 decimal place b = 7.52 correct to 2 decimal places

By considering bounds, work out the value of *t* to a suitable degree of accuracy. Give a reason for your answer.

(Total for Question 17 is 5 marks)

.....





The shape below is made up of a cone and hemisphere. 22



VIDEO



x is the radius of the cone and the radius of the hemisphere. The total volume of the shape is 540 cm^3

Calculate the value of *x*. Give your answer to 3 significant figures.

..... cm

(Total for Question 22 is 4 marks)

