Please check the examination details below before entering your candidate information						
Candidate surname		Other names				
	Centre Number	Candidate Number				
Mathematics						



FOR FULL VIDEO SOLUTIONS SCAN THE QR CODE

youtube.com/whavrahkettlemaths



Foundation Tier

Predicted Paper 1F - 15th May 2025

Total Marks

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
 - there may be more space than you need.
- 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 1. I hope you find it helpful!

For more @hannahkettlemaths GCSE Revision Content:









@hannahkettlemaths Website

Download Weekly Revision Papers and more Content







Answer ALL questions.

Write your answers in the spaces provided.



You must write down all the stages in your working. Change 20 centimetres into millimetres. millimetres (Total for Question 1 is 1 mark) Write the following numbers in order of size. Start with the smallest number. 20% 0.3 0.23 (Total for Question 2 is 2 marks) Work out $30 + 5 \times 2$ (Total for Question 3 is 1 mark) Write 5.28 correct to 1 decimal place. (Total for Question 4 is 1 mark) Write down the value of the 5 in the number 7852 (Total for Question 5 is 1 mark)

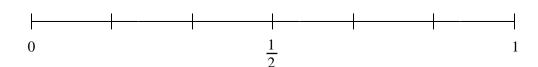
6	Here is a list of numbers.							
		5	12	15	27	29	40	
	From the list, write down							VIDEO') SOLUTIONS
	(a) a factor of 20							
								(1)
	(b) a prime number							
	(c) a cube number							(1)
								(1)
							(Total for Q	euestion 6 is 3 marks)
7	(a) Write down the math	ematica	l name o	of this qu	uadrilate	ral.		
	(b) Write down the math	ematica	l name o	of this 3-	D shape		7	(1)
							(Total for O	(1)
							(10tal for Q	uestion 7 is 2 marks)

8	(a) Simplify $2a \times 7b$		VIDEO SOLUTIONS
	(b) Simplify $4x - 2y +$	3x - 8y - x	(1)
	(c) Simplify $p^2 + p^2 + p^2$	p^2	(2)
			(Total for Question 8 is 4 marks)
9	The pictogram shows inf Tuesday.	ormation about the number of b	icycles sold in a shop on Monday and on
	Monday	00	
	Tuesday	00	Key:
	Wednesday		represents 8 bicycles
	Thursday		
	Over the four days shown $\frac{2}{7}$ of these bikes were so	n, the shop sold a total of 56 bic	ycles.
	7 Use this information to c		
	ose una información to e	omplete the pletogram.	
			(Total for Question 9 is 3 marks)

10 An ordinary fair dice is thrown once.

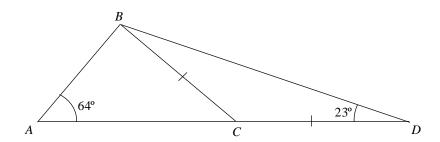
- sona 🗖
- (a) On the probability scale, mark with a cross (\times) the probability that the dice lands on a multiple of 2.





(Total for Question 10 is 1 mark)

11

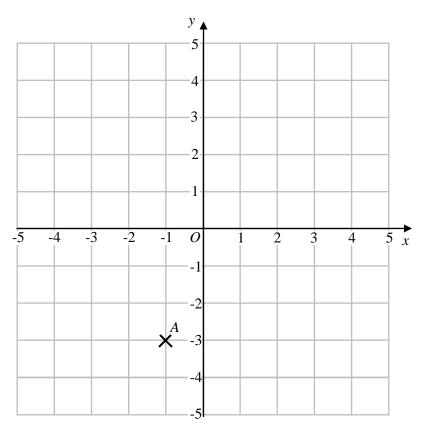


ACD is a straight line

Work out the size of angle ABC

....





(a) Write down the coordinates of the point A.

(,)
	(1)

(b) On the grid, mark with a cross (\times) the point (2,0) Label this point B

(1)

(c) On the grid, draw the line with equation x = 3

(1)

(Total for Question 12 is 3 marks)

13	A rectangle has an area of		
	$2\frac{2}{3}$ m	10 m ²	VIDEO D SOLUTIONS
	Find the perimeter of the	rectangle.	
			m
		 (Total	for Question 13 is 4 marks)
14		tee and hot chocolate in the ratio 3 : 5 : 4 drinks sold were coffee?	
14		ee and hot chocolate in the ratio 3:5:4	
14		ee and hot chocolate in the ratio 3:5:4 drinks sold were coffee?	
14	What fraction of the	ee and hot chocolate in the ratio 3:5:4 drinks sold were coffee?	for Question 13 is 4 marks)
14	What fraction of the	the and hot chocolate in the ratio 3:5:4 drinks sold were coffee? Form 1: n	for Question 13 is 4 marks)

15	Ben wants to buy 41 hats. Each hat costs £5.90.	
	(a) Estimate the total amount of money Ben will need to buy all	the hats. video 5 solutions
	(b) The cost of a hat increases by 20% Using the exact value, calculate the new cost of a single hat.	£(2)
		£(2)
16	Here are the first five terms of an arithmetic sequence.	(Total for Question 15 is 4 marks)
10	1, 8, 15, 22, 29	
	(a) Find an expression, in terms of n , for the n th term of this sec	quence.
	(b) Find the 12 th term in the sequence	(2)
		(Total for Question 16 is 3 marks)

17 180 students were asked if they prefer running or cycling

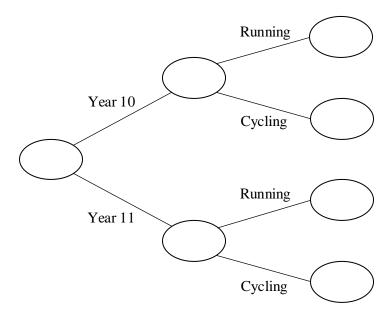
¥ ZEEL VIDEO)

The students were all in Year 10 or Year 11.

The ratio of students in Year 10 to Year 11 was 4:5 55% of the students preferred cycling

 $\frac{4}{5}$ of the Year 10 students preferred running

(a) Use this information to complete the frequency tree.



(4)

(b) One of the Year 10 students is chosen at random. Write down the probability that this student preferred cycling.

(2)

(Total for Question 17 is 6 marks)

20 (a) Write 153 Give your	as a product of its prime factors. answer in index form.	VIDEO) SOLUTIONS
(b) Find the lov	west common multiple (LCM) of 102 and	(2)
		(Total for Question 20 is 4 marks)

21 It takes 5 workers 15 days to build a house extension. (a) How long would it take 3 workers to build the same extension?						
tion you made in	1 working c	out your ans			days	
		avhas in a		l for Questi	(1) ion 21 is 3 marks)	
				e from the b	ox.	
Colour	pink	grey	white			
Probability	х	У	у			
of y.					ion 22 is 2 marks)	
	tion you made in the cubes, grey cube probability of tal	tion you made in working of the colour pink Colour pink Probability x	cubes, grey cubes and white cubes in a probability of taking at random each color pink grey Probability x y	tion you made in working out your answer to part to the cubes, grey cubes and white cubes in a box. probability of taking at random each colour of cube. Colour pink grey white Probability x y y y of y.	tion you made in working out your answer to part (a). (Total for Questivuses, grey cubes and white cubes in a box. probability of taking at random each colour of cube from the box. Probability x y y y of y .	

23	(a)	Write	0.00209	in	standard	form
	(u)	11110	0.00207	111	Similania	TOILL.



SOLUTIONS

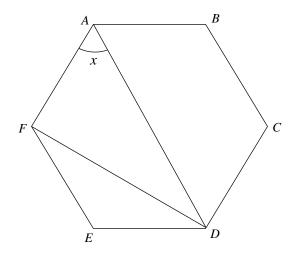
(b) Write 1.302×10^4 as an ordinary number.

	(1)
	(1)

	(1)

(Total for Question 23 is 2 marks)

24



ABCDEF is a regular hexagon

Work out the size of angle *x* You must show all your working.

	c

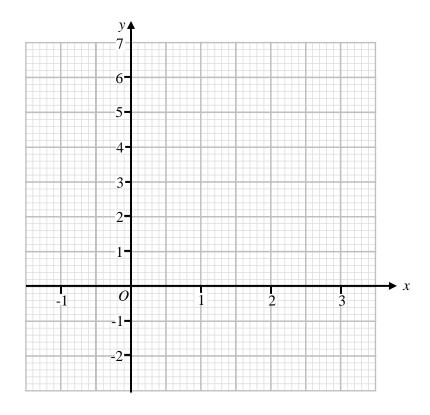
25 (a) Complete the table of values for y = 5 - 2x

x	-1	0	1	2	3
y					



(2)

(b) On the grid, draw the graph of y = 5 - 2x for values of x from -1 to 3



(2)

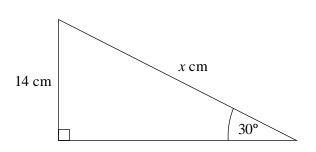
(c) Give the equation of a line parallel to y = 5 - 2x

.....

(1)

(Total for Question 25 is 5 marks)

26	(a) Expand $x(2x-5)$	VIDEO) SOLUTIONS
	(b) Factorise fully $15k^2 - 21k$	(1)
	(b) Pactonse runy 13k – 21k	
	(c) Solve $4(y+2) < 22$	(2)
		(2)
		(Total for Question 26 is 5 marks)
27	Alice travels 45 miles in 90 minutes. What was Alice's average speed in miles per hour?	
		mph
		(Total for Question 27 is 2 marks)





Work out the value of x.

(Total for Question 28 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS