

GCSE Mathematics

Unit 1: Calculator **NOT** Allowed

Intermediate Tier



County Revision Paper 3b

Week beginning

55 Minutes

School:	 	
Student Name:		

Question	Maximum	Mark
Question	Mark	Awarded
2	3	
4	6	
6	6	
8	4	
10	5	
12	3	
14	4	
16	6	

20% off £120 is the same as 80% of £120	TRUE	FALSE
$\frac{1}{2}$ of 60 is the same as 15 $\div \frac{1}{2}$	TRUE	FALSE
2 ³ is the same as 3 ²	TRUE	FALSE
3 ³ is not the same as (-3) ³	TRUE	FALSE
Dividing a number by 100 is the same as multiplying by 0.1	TRUE	FALSE

Spa	ice for working:	
4.	(a) Write down the next two numbers in the following sequence.	[2]
	19 14 9 4	
	(b) Simplify the expression $9r - 3s + 2r - 3s$	[2]
	(c) Using the formula $3E = 2F + G$, find the value of F when $E = 8$ and $G = 6$	[2]
		••••••

6.	In this question you will be assessed on the quality of your organisation, communication and accuracy in writing.
	The area of a rectangle is 30cm ² .
	Its length and width are whole numbers.
	Find the smallest possible perimeter of this rectangle.
	You must show your working. [4 + 2 OCW]

(0)	NAU	
(a)	"All prime numbers have more than to	
	True or False?	

(b)	"All square numbers have an odd num	ber of factors."
	True or False?	
	nde of Falser	
E-10-10-1		
A regula	ar polygon has six sides	
. A regula		
. A regula	ar polygon has six sides	
. A regula	ar polygon has six sides	
. A regula	ar polygon has six sides	
. A regula	ar polygon has six sides	
. A regula	ar polygon has six sides	

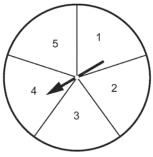
(b) [3]

In answering this question, you must show all your construction arcs.

Use a ruler and a pair of compasses to construct an angle of 45° at the mid-point of the straight line below.

Label your angle 45°.

12. The spinner shown below and a fair coin are thrown together once.





(a)	How many possible outcomes will there be?	[1]
(b)	What will be the probability of getting the arrangement shown in the diagram?	[1]
(c)	What will be the probability of getting an even number on the spinner and a head of	n
	the coin?	[1]
		••••

14.	(a) Ar	2100	2.4 × 10-3	2.4 × 103	103	
		2100	2·4 × 10 ⁻³	2.4×10^{3}	103	
	Smallest		9 × 10 ¹³ , giving you			

۸ + ۱۰۰	inchtime t	the probability that	Kelly buys a bowl o	f soup is 0.7.		
At Iu						
			sandwich is indepen	dent of her buying a	a bowl of soup.	
The	probabilit	y that Kelly buys a s	sandwich is independowl of soup and a s		a bowl of soup.	
The The	probabilit	y that Kelly buys a s	·		a bowl of soup.	
The The	probabilit	y that Kelly buys a s	·		a bowl of soup.	******
The The	probabilit	y that Kelly buys a s	·		a bowl of soup.	
The The	probabilit	y that Kelly buys a s	·		a bowl of soup.	
The The	probabilit	y that Kelly buys a s	·		ıys a	
The The	probabilit	y that Kelly buys a sy that Kelly buys a land	bowl of soup and a s	sandwich is 0.28.	ıys a	
The The	probabilit	y that Kelly buys a sy that Kelly buys a land	bowl of soup and a s	sandwich is 0.28.	ıys a	
The The	probabilit	y that Kelly buys a sy that Kelly buys a land	bowl of soup and a s	sandwich is 0.28.	nys a h	
The The	probabilit	y that Kelly buys a sy that Kelly buys a land	bowl of soup and a s	Kelly bu	nys a h	
The The	probabilit	y that Kelly buys a sy that Kelly buys a land	bowl of soup and a s	Kelly debuy a sa	nys a h	
The The	probabilit	y that Kelly buys a sy that Kelly buys a lithe tree diagram. Kelly bowl of the bowl of the buys a lithe tree diagram.	bowl of soup and a s	Kelly de buy a sandwick	nys a th	
The The	probabilit	y that Kelly buys a sy that Kelly buys a lithe tree diagram. Kelly bowl of the bowl of the buys a lithe tree diagram.	bowl of soup and a s	Kelly de buy a sandwick	oes not ays a ch	[4]