Surname	Centre number	Candidate number
First name(s)		0



GCSE 3320UB0-1

GCSE Mathematics and Numeracy (Double Award)
Unit 2: Non-calculator

Foundation Tier

1 hour 30 minutes SAMPLE ASSESSMENT MATERIALS

Additional materials

The use of a calculator is not permitted in this examination.

A ruler, a protractor and a pair of compasses may be required.

Instructions to candidates

Use black ink or black ball-point pen. Do **not** use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces provided at the top of this page.

Answer all the questions in the spaces provided.

If you need more space, use the additional page(s) at the back of this booklet. Number the question(s) correctly.

Take π as 3·14.

Information for candidates

The number of marks is given in brackets at the end of each question or part-question.

In question 7, the assessment will take into account the quality of your mathematical organisation, communication and accuracy in writing.

For examiner's use only			
Question	Maximum mark	Mark awarded	
1.	4		
2.	3		
3.	2		
4.	3		
5.	2		
6.	5		
7.	6		
8.	3		
9.	4		
10.	4		
11.	3		
12.	4		
13.	3		
14.	4		
15.	3		
16.	3		
17.	5		
18.	4		
Total	65		

Answer all questions.

(a)	The	allen			0
			Match A attendance	Match B attendance	
			30 152	23 451	
	(i)	Write	down, in words, the attend	ance at Match A.	[1]
	(ii)	Write	the attendance at Match B	correct to the nearest hundred.	[1]
(b)	Its f	actors	has exactly four factors. are 1, 3, 9 and the number ne number?	r itself.	[1]
(c)	Wri	te the	se numbers in order, startin	g with the lowest number. 0 –10 11	

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2. Here is a list of some 2-D shapes.

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Equilai trianç		triangle	Kite	Parallelogram	
Rhom	bus	Rectangle	Scalene triangle	Trapezium	
Using only	the shap	pes in the list, write	e down the specia	al name for:	I
(a) each	of the two	o shapes whose sid	des are all of equa	al length	I

	and	
(b)	the quadrilateral with four angles of equal size.	[1]

3. Siôn completes a reading test and a spelling test. His scores are shown in the table below.

Test	Score
Reading	$\frac{7}{10}$
Spelling	$\frac{3}{4}$

Examiner

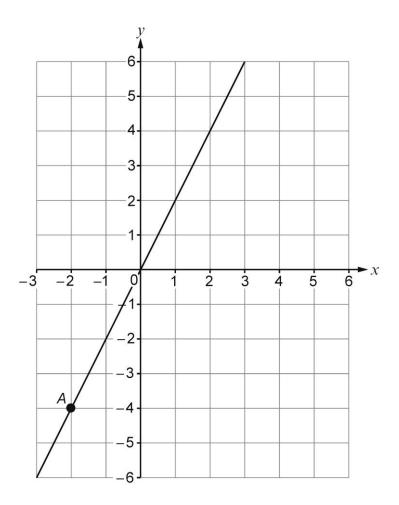
[2]

In which test did Siôn get the greater score?

Reading		Spelling	
---------	--	----------	--

You must show working to support your answer.

only



(a) What are coordinates of the point A?

[1]

(.....)

(b) Bethan thinks that, if the straight line was extended, the line would go through the point (6, 10).

[1]

Is Bethan correct?

YES

NO

Explain your reasoning.

6.	(a)	Calculate 13 ² .	[1]	Examiner only
	(b)	Write down $\sqrt{81}$.	[1]	
	(c)	Calculate 30 – 5 × 4.	[1]	
	(d)	Write down the prime number between 20 and 28.	[1]	
	(e)	Calculate 20 ÷ 0·4.	[1]	

7. In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.

Examiner only

In the diagram below, ABCD and DEFG are two identical squares.

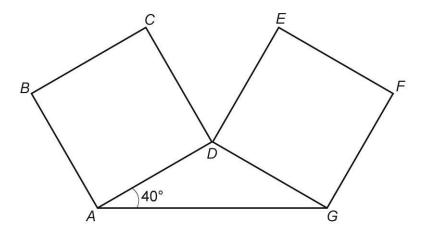
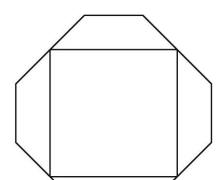


Diagram not drawn to scale

Show that angle <i>CDE</i> is an acute angle. You must show all your working.	[4 + 2 OCW]

8.	Rock	d has three rocks, labelled A, B and C. A has a mass of 6·21 kg. B has a mass of 3·5 kg.	[3]	Examiner only
		three rocks are placed on a weighing scale. total mass of the three rocks is 12·46 kg.		
	Calc	ulate the mass of the rock C.		
9.	(a)	Mass of rock C =	[1]	
	(b)	Simplify $8y \times 6$.	[1]	
	(c)	Find the value of $2t + 4w$ when $t = -5$ and $w = 8$.	[2]	

10. (a) Draw all the lines of symmetry on the following diagram.

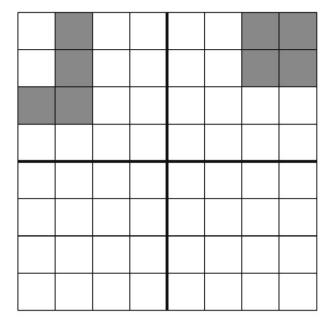


(b) Shade the least number of squares so that the grid has rotational symmetry of order 2.

[2]

Examiner only

[2]



11.	32 players took part in the Snooker World Championship in 2024. Some players were from Wales, some came from the rest of Great Britain, and the remainder came from the rest of the world.	[3]	Examiner only
	There were three times as many players from the rest of Great Britain as there were from Wales. There were two more players from the rest of the world than there were from Wales.		
	Calculate how many players came from each region.		
	Wales Rest of Great Britain Rest of the world		

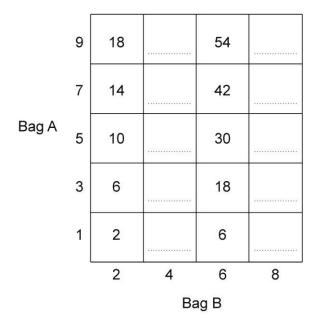
Examiner only

Kate plays a game.

In a game, she takes one card from Bag A and one card from Bag B. Her score is found by calculating the **product** of the two numbers.

(a) Complete the table to show all of her possible scores.

[2]



(b)	Kate wins a prize if she gets a score of 20 or less. What is the probability that she wins a prize?	[2]

13.	Solve $13d + 9 = 5d - 31$.	[3]	Examiner only
14.	A number machine is shown below.		
	$\boxed{ \text{INPUT} \longrightarrow \boxed{ \text{Divide by } \frac{3}{8} } \longrightarrow \boxed{ \text{Subtract } \frac{1}{2^3} } \longrightarrow \boxed{ \text{OUTPUT} }$		
	The INPUT number is $2\frac{5}{8}$.		
	What is the OUTPUT number? Give your answer as a mixed number.	[4]	
	, ,		

14

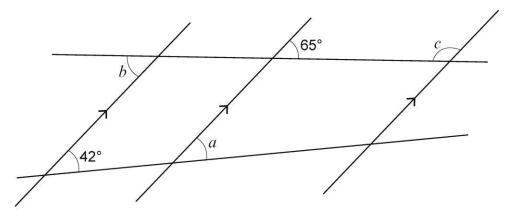


Diagram not drawn to scale

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16. Delyth is making some packs of wooden cutlery for her food stall at the market. Each pack contains one knife, one fork and one spoon.

To make up these packs, Delyth buys:

- some boxes that contain 14 wooden knives each
- some boxes that contain 16 wooden forks each
- some boxes that contain 10 wooden spoons each.



Delyth wants to buy the **least possible number of boxes** so that, in making up the packs, she uses **all** of the knives, forks and spoons she has bought.

needs to		imber of boxes of each item that Delyth
		Number of boxes needed
	Knives (14 in each box)	boxes
	Forks (16 in each box)	boxes
	Spoons (10 in each box)	hoves

Examiner only

17. Rhodri Jones works with his 2 daughters in their family business.

Rhodri is x years old, where x is a whole number. Megan, his older daughter, is (x-23) years old. Gwenda, his younger daughter is 5 years younger than Megan.

On the Jones family business website, it states the following:

Well-established family business!
The total age of our 3 workers is greater than 100 years.

Form and solve an inequality to find the youngest possible age Rhodri could be for the last statement to be true.	[5]

[2]

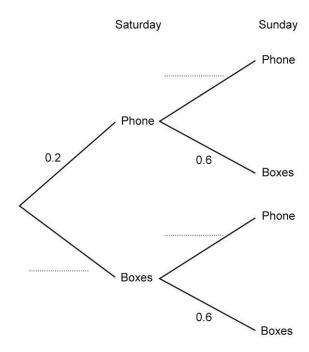
- **18.** Every weekend, Ravi works on Saturday and on Sunday. Ravi is given one job to do on Saturday and one job to do on Sunday. The options for the job he could be given on either day are:
 - answer the phone
 - pack boxes.

On any weekend, the probability that Ravi is given the job to:

- answer the phone on Saturday is 0.2
- pack boxes on Sunday is 0.6.

The job given to Ravi on one day is independent of the job given to him on the other day.

(a)	Complete the tree diagram below.



(b)	Calculate the probability that, next weekend, Ravi is given the job to pack boxes on Saturday and on Sunday.	[2]	only

END OF QUESTIONS

Examiner
only

Question number	Additional page, if required. Write the question number(s) in the left-hand margin.