Other Names

Centre Number



3300U10-1

GCSE – NEW

A16-3300U10-1

MATHEMATICS **UNIT 1: NON-CALCULATOR** FOUNDATION TIER

TUESDAY, 8 NOVEMBER 2016 – MORNING

1 hour 30 minutes

Suitable for Modified Language Candidates

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination. A ruler, 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 at the top of this page.

Answer all the questions in the spaces provided.

If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

Take π as 3.14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

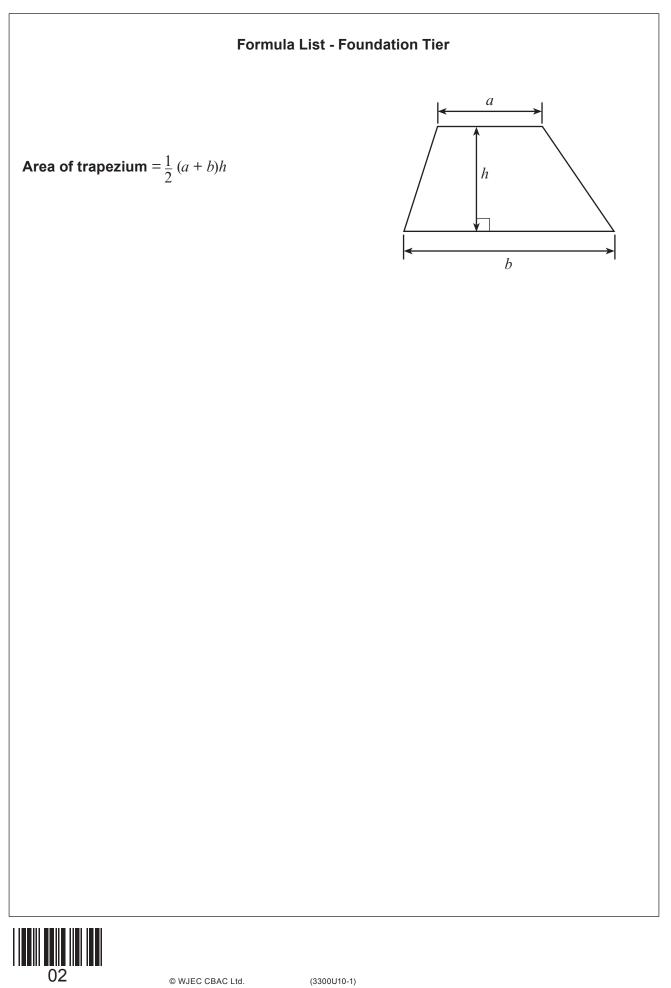
Scale drawing solutions will not be acceptable where you are asked to calculate.

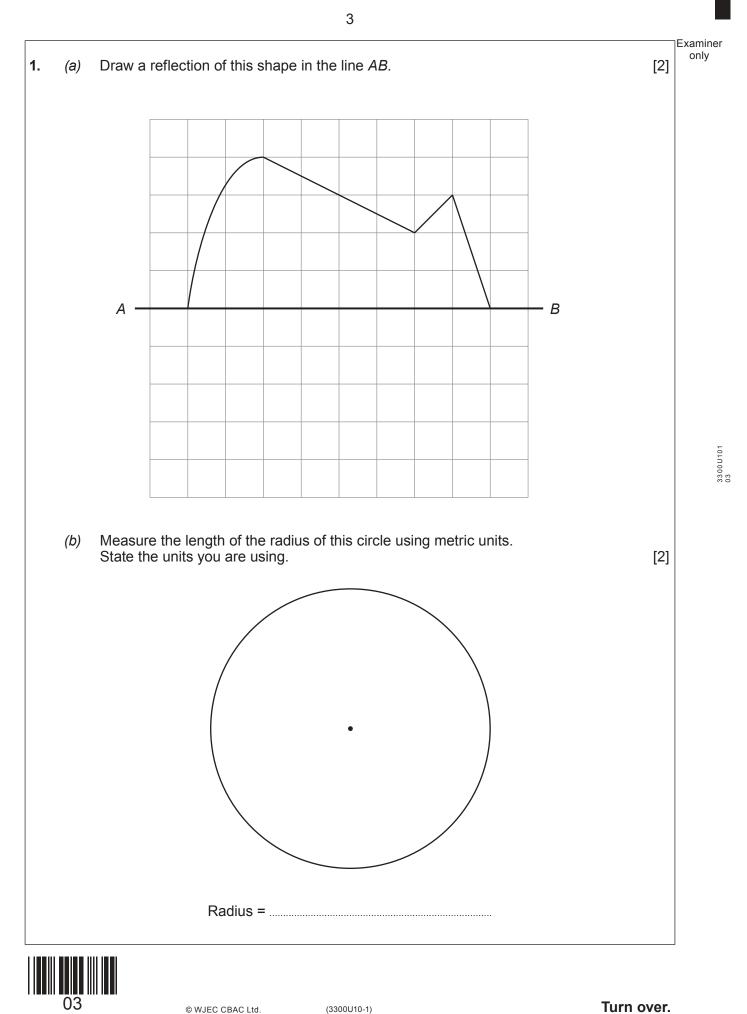
The number of marks is given in brackets at the end of each question or part-question.

In question 4, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.



For Ex	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1.	4	
2.	2	
3.	2	
4.	5	
5.	2	
6.	2	
7.	5	
8.	2	
9.	4	
10.	2	
11.	2	
12.	6	
13.	3	
14.	3	
15.	5	
16.	5	
17.	5	
18.	3	
19.	3	
Total	65	



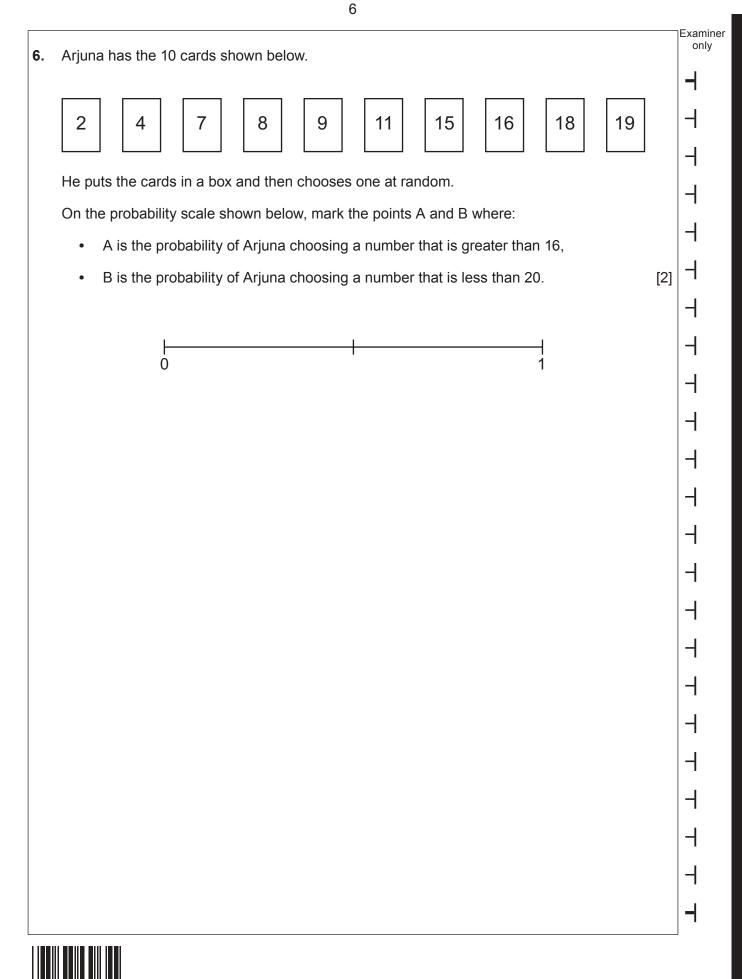


(a)	Huw has 19 c 13 of these co Huw chooses	oins are 10p	coins and			S.		
	Circle the be chooses a 5p		on from th	nose given	below to	describe th	ne chance th	at Huw [1]
	impossible	unlikel	y a	n even cha	ance	likely	certain	
(b)	Catrin has 10 She has 4 ora	pieces of fr anges and 6	ruit in her b apples.	bag.				
	Catrin choose	es one piece	e of fruit at	random fro	om her bag].		
	Circle the be chooses a ba			ose given	below to d	lescribe the	e chance that	Catrin [1]
	impossible	unlikel	y a	n even cha	ance	likely	certain	
(a)	Kate thought She multiplied			l got the ar	nswer 54.			
(a)		d her numbe	er by 9 and	I got the ar	nswer 54.			[1]
(a) (b)	She multiplied	d her numbe	er by 9 and ink of?			ake this sta	itement true.	[1]
	She multiplied	d her numbe	er by 9 and ink of?			ake this sta	ntement true.	
	She multiplied	d her numbe did Kate th ive whole r	er by 9 and ink of?			ake this sta	itement true.	
	She multiplied	d her numbe did Kate th ive whole r	er by 9 and ink of?			ake this sta	itement true.	
	She multiplied	d her numbe did Kate th ive whole r	er by 9 and ink of?			ake this sta	ntement true.	
	She multiplied	d her numbe did Kate th ive whole r	er by 9 and ink of?			ake this sta	itement true.	



Examiner only In this question, you will be assessed on the quality of your organisation, communication and 4. accuracy in writing. A square is made using four rods of equal length joined end to end. The perimeter of this square is 72 cm. Three of these rods are now joined end to end to make an equilateral triangle. What is the perimeter of this equilateral triangle? You must show all your working. [3 + 2 OCW] 5. Solve the following equations. 20x = 120(a) [1] (b) 40 - y = 25[1]





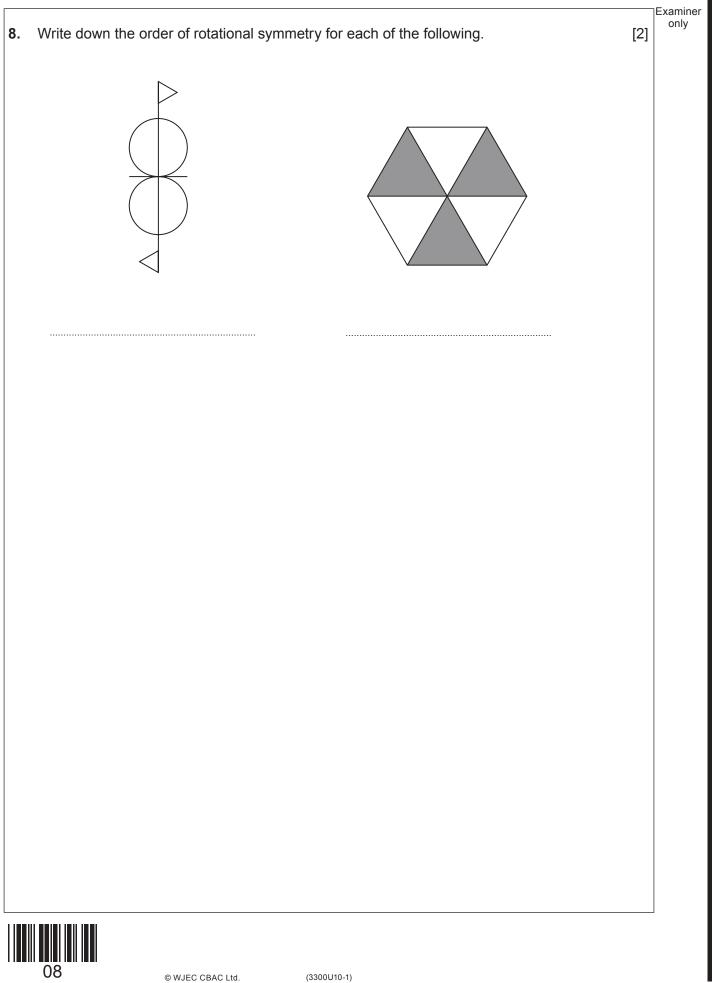
7. There are 204 students at Ysgol Bryn. The caretaker always puts 15 chairs in each row in the school hall. How many complete rows of chairs must the caretaker put out so that each student can • sit on a chair? How many empty chairs will there be? [5] _____ Number of complete rows of chairs = Number of empty chairs =

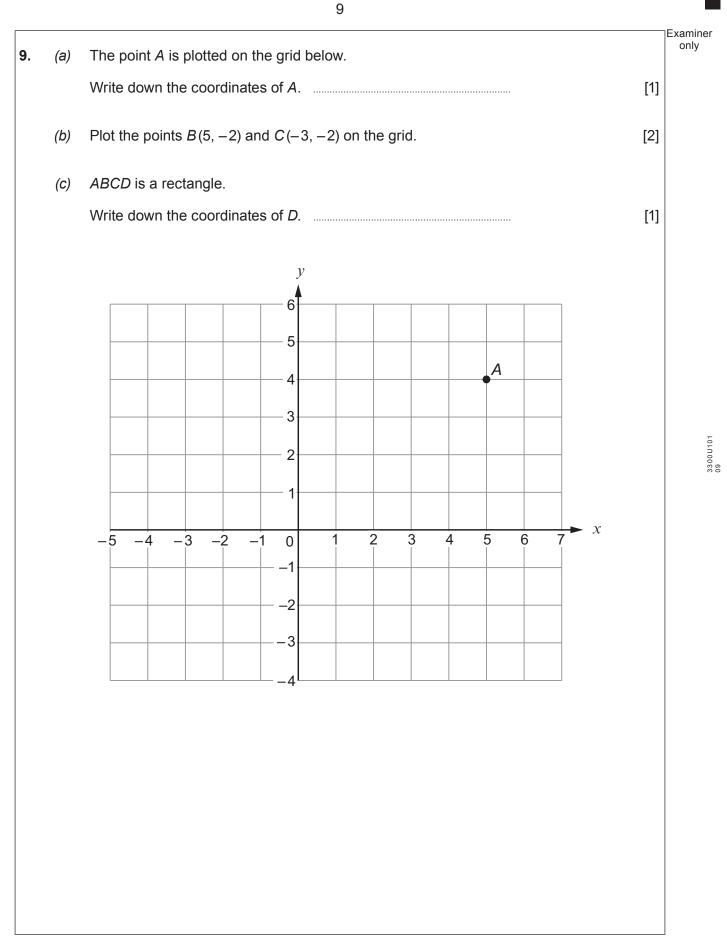
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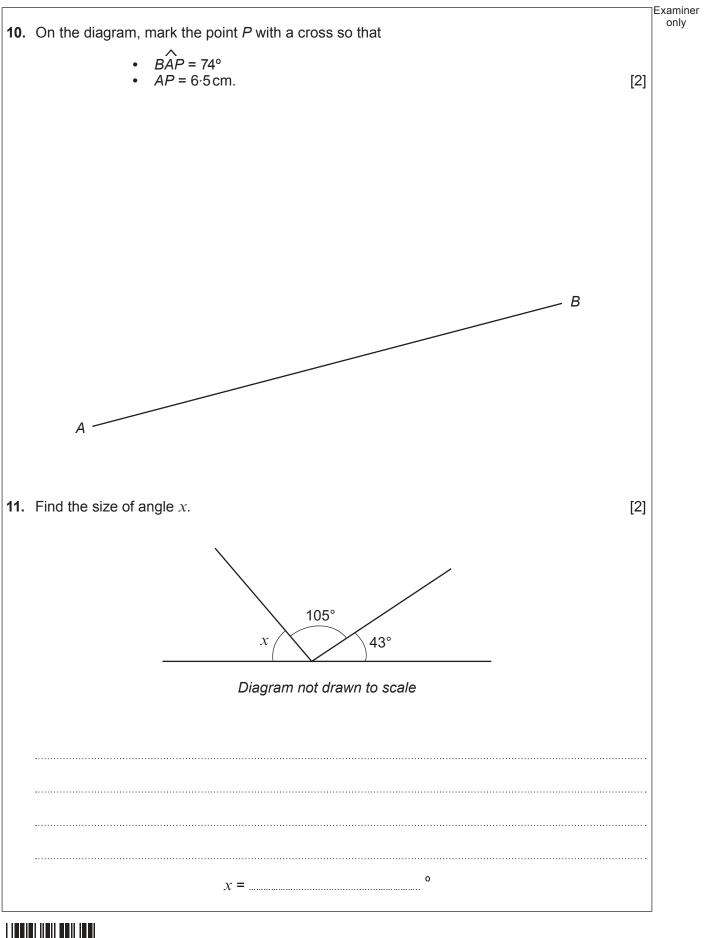
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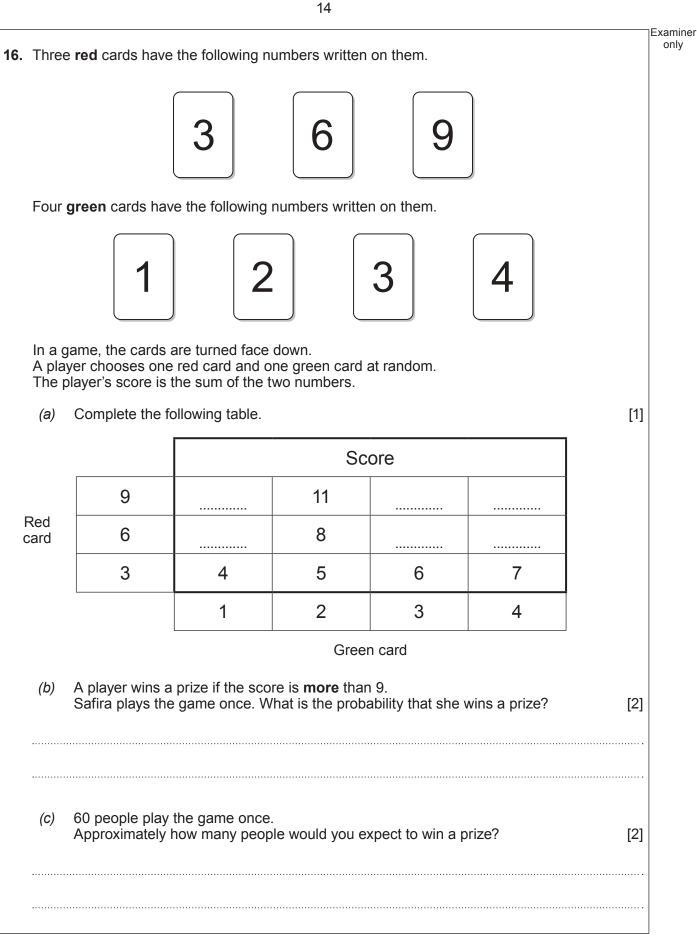
12.	Calculate each of the following.				
	(a)	0·4 × 0·7	[1]		
		13·8 – 7·45	[1]		
	(C)	3 ³ - 2 ⁴	[2]		
		$\frac{9}{10} - \frac{3}{5}$	[2]		



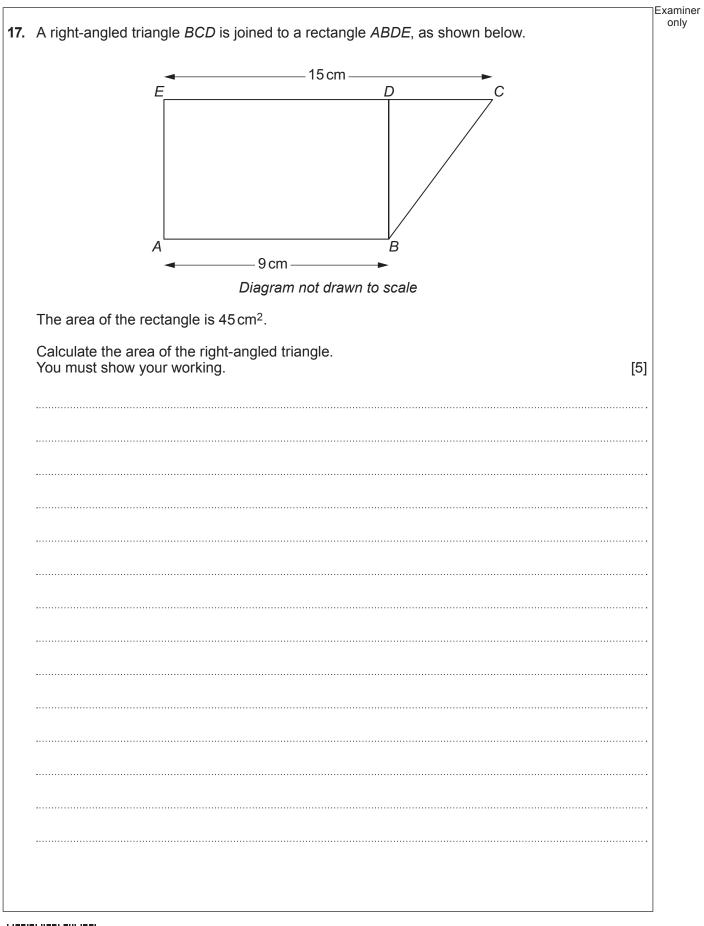
rcle either TRUE or FALSE for each of the following statements.				
20% of 70 is the same as 70% of 20.	TRUE	FALSE		
$\frac{1}{2}$ of $\frac{1}{8}$ is the same as $\frac{1}{8}$ of $\frac{1}{2}$	TRUE	FALSE		
A number is halved. The answer is halved, and then this answer is halved again. This gives the same answer as dividing the original number by 6.	TRUE	FALSE		
Dividing a number by 15 is the same as first dividing by 10 and then dividing the answer by 5.	TRUE	FALSE		
Multiplying a number by 2.5 is the same as first multiplying by 10 and then dividing the answer by 4.	TRUE	FALSE		
pace for working:		1		



14.	A shop has 31 plant pots. Some are blue, some are yellow and the rest are red. There are five more blue pots than yellow pots. There are four times as many blue pots as there are red pots.	Exam only
	Calculate how many pots there are of each colour.	[3]
	Blue	
15.	 (a) Write down the next two numbers in the following sequence. 33 26 19 12 	[2]
	(b) Solve the equation $13y - 5 = 9y + 27$.	[3]
	13 © WJEC CBAC Ltd. (3300U10-1)	Turn over.









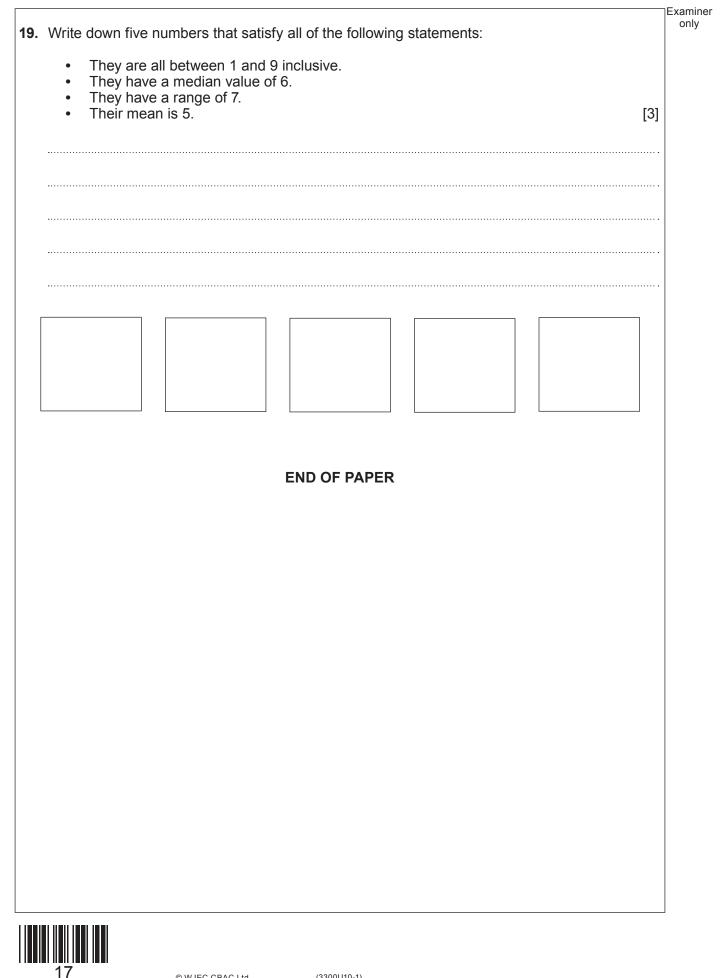
 Two types of number are added or multiplied together. Complete the table below to show whether the answer will be odd or even. One answer has been filled in for you.

Calculation:	Answer will be:
even number + even number	even
even number + odd number	
odd number + odd number	
even number × even number	
even number × odd number	
odd number × odd number	



Examiner only

[3]



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



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