



MATHEMATICS PAPER FOR 2021 ENTRY – TEST 2

Name: ____

Candidate Number: _

Primary School: _

Boy or Girl:

Date of Birth:

Today's Date: ____

Test Taken At:_____

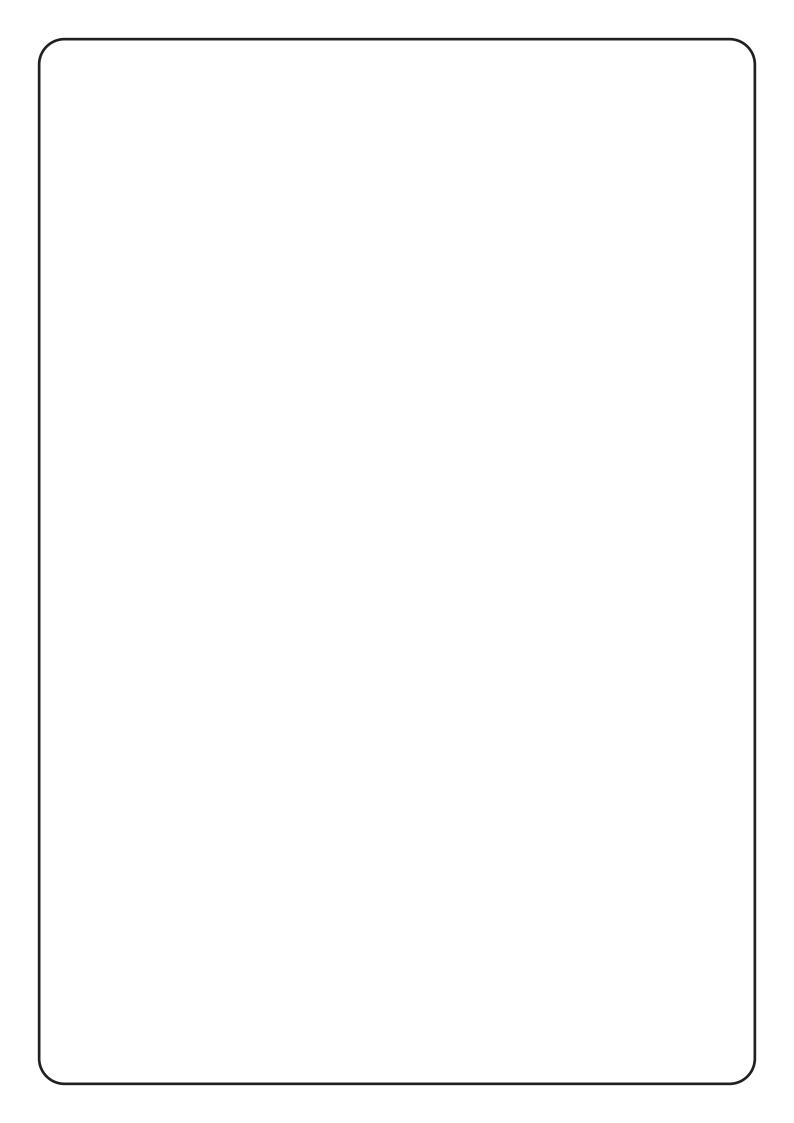
READ THE FOLLOWING CAREFULLY:

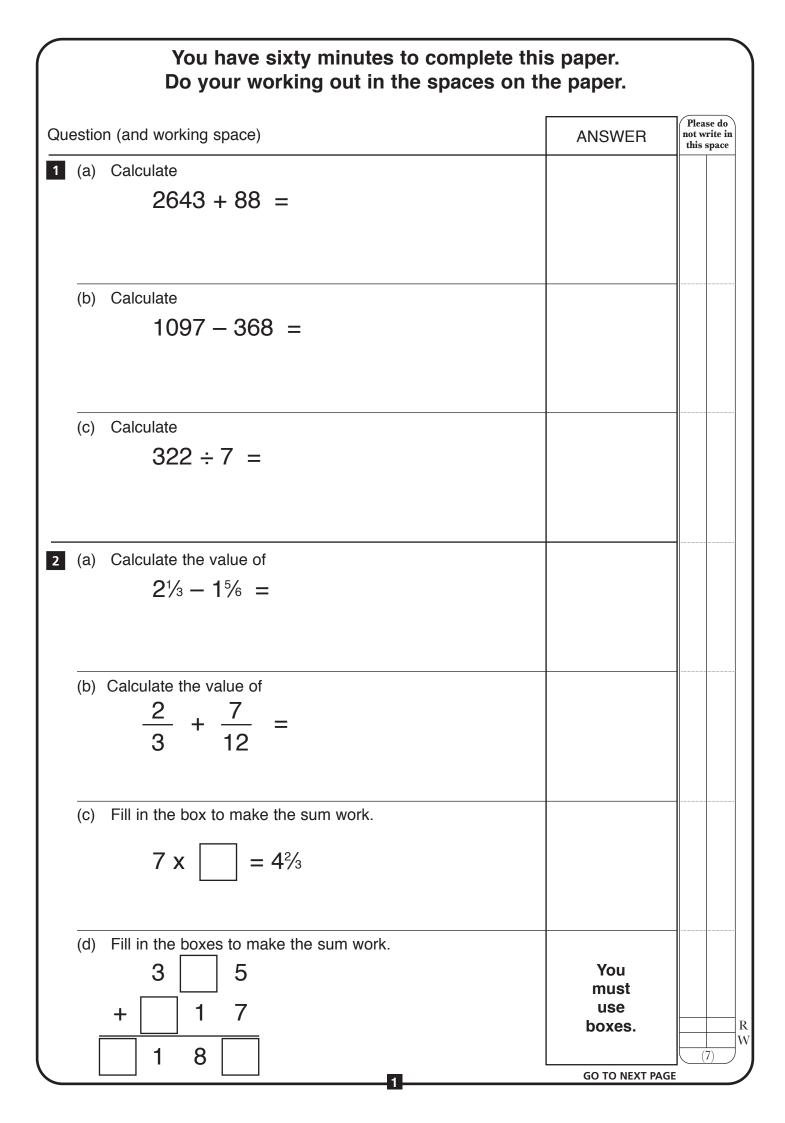
1. Do not open this booklet until you are told to do so.

- 2. You may work the questions out in your head, or by writing on the white area around the question.
- 3. Work as quickly and as carefully as you can.
- 4. Make any alterations to your answers **clearly.** You will not lose marks for crossing out.
- 5. You will have <u>60 minutes</u> to do the test. If you find you cannot do a question, **do not waste time on it but go on to the next one.**
- 6. Once the test has begun, you should not ask about questions in the test.
- 7. The use of electronic calculators of any description (including calculator watches) is <u>NOT</u> permitted.

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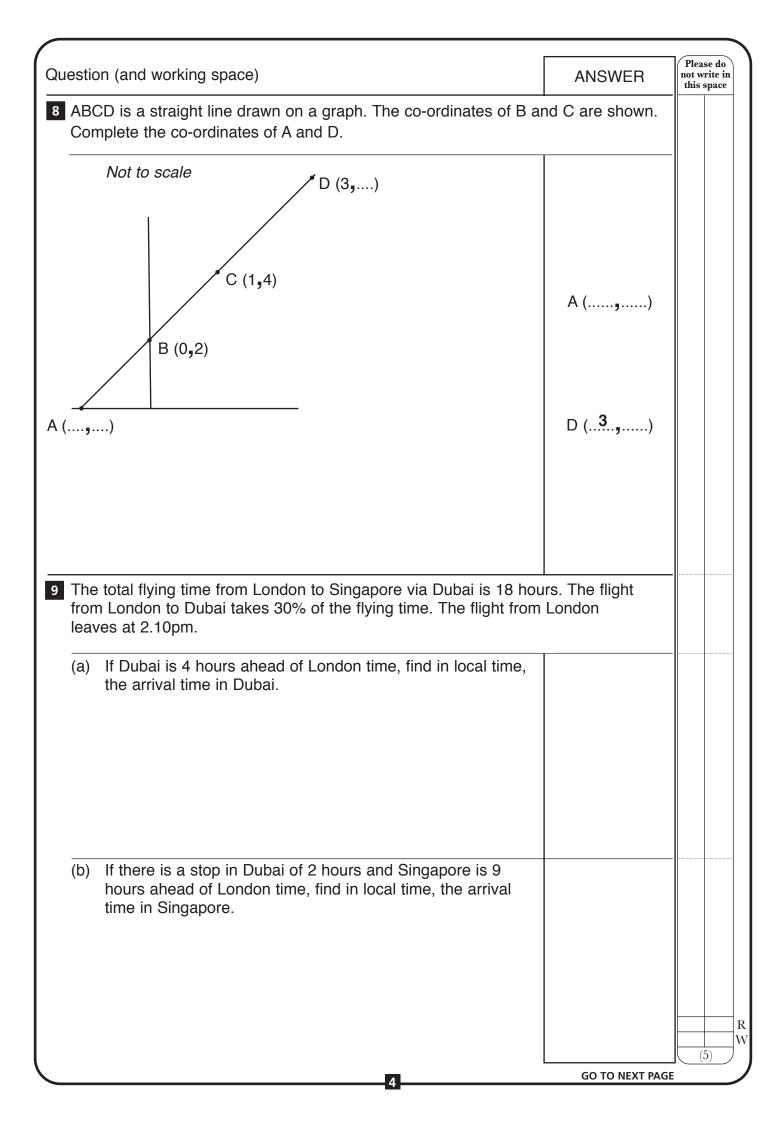
DAGE	SCORE				
PAGE	R	W			
1 (7)					
2 (6)					
3 (5)					
4 (5)					
5 (3)					
6 (5)					
7 (5)					
8 (4)					
9 (6)					
10 (7)					
11 (3)					
12 (4)					
TOTAL (60)					
INITIALS OF MARKER(S)					

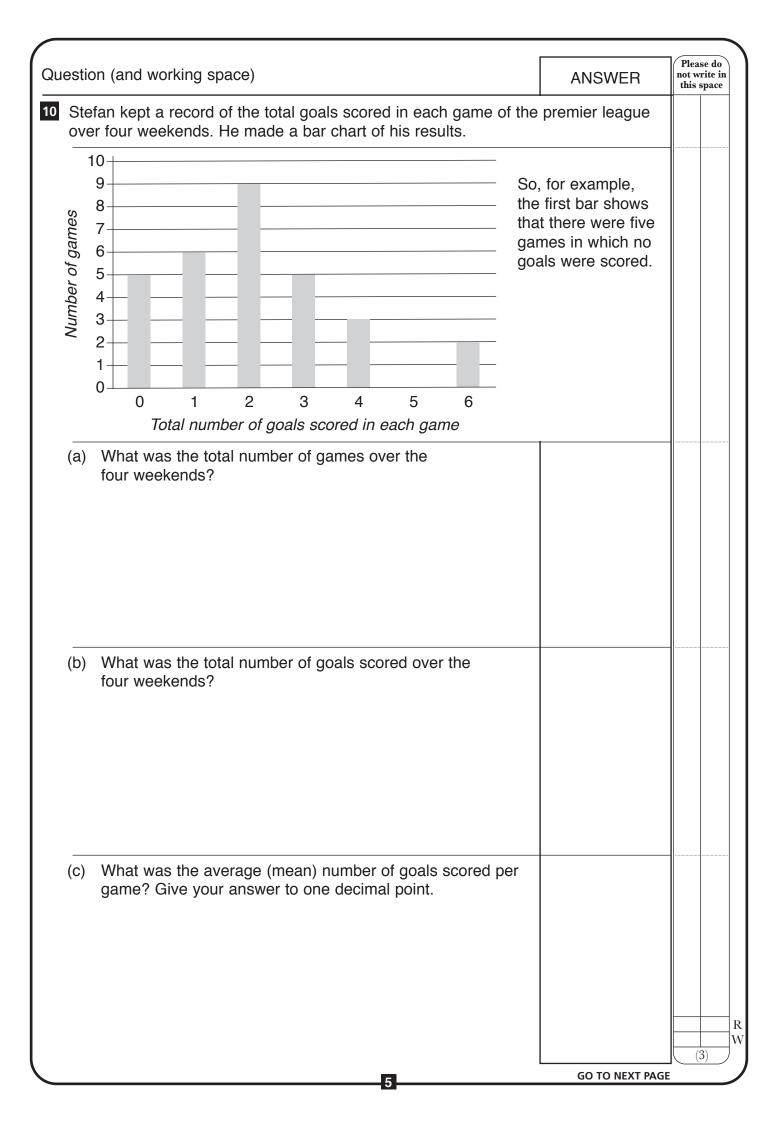




Question (and working space)	ANSWER	Please do not write in this space
 ³ 7⁵ means 7 x 7 x 7 x 7 x 7. Fill in the boxes to make these sums work. 		
(a) $3^{-} = 243$		
(b) $2^{-} \div 8 = 16$		
4 This question is about the following numbers: $\frac{2}{5} 0.31 \frac{1}{3} \frac{3}{8} 0.42$		
(a) Which is the smallest number?		
(b) Which is the number closest in value to 0.35?		
5 (a) How many cm are there in 4•721m?		
	cm	
 (b) A rectangle has width 40mm and its area is 30cm². What is its length in cm? 		
	cm	
2	GO TO NEXT PAGE	

Α			viewe for different 1 to d		SWER not write this spa
	A PACK OF 4 APPLES for £1	s the following pi BANANAS 28p EACH	rices for different kinds c A PACK OF 8 TANGERINES for £2.40	A PACK OF 6 PEARS for £2	
(a)	What will it cost	to get 18 pears,	, 8 apples and 10 banan	as?	
				£	
(b)	Which is the ch same fruit?	eapest fruit if I w	ant to buy 24 of the		
(C)			nbination of fruit in the s must I have bought?		
lf A	is double B and	B is three times	C and $A+B+C = 50$ find:	ł	
(a)	С				
(b)	A				





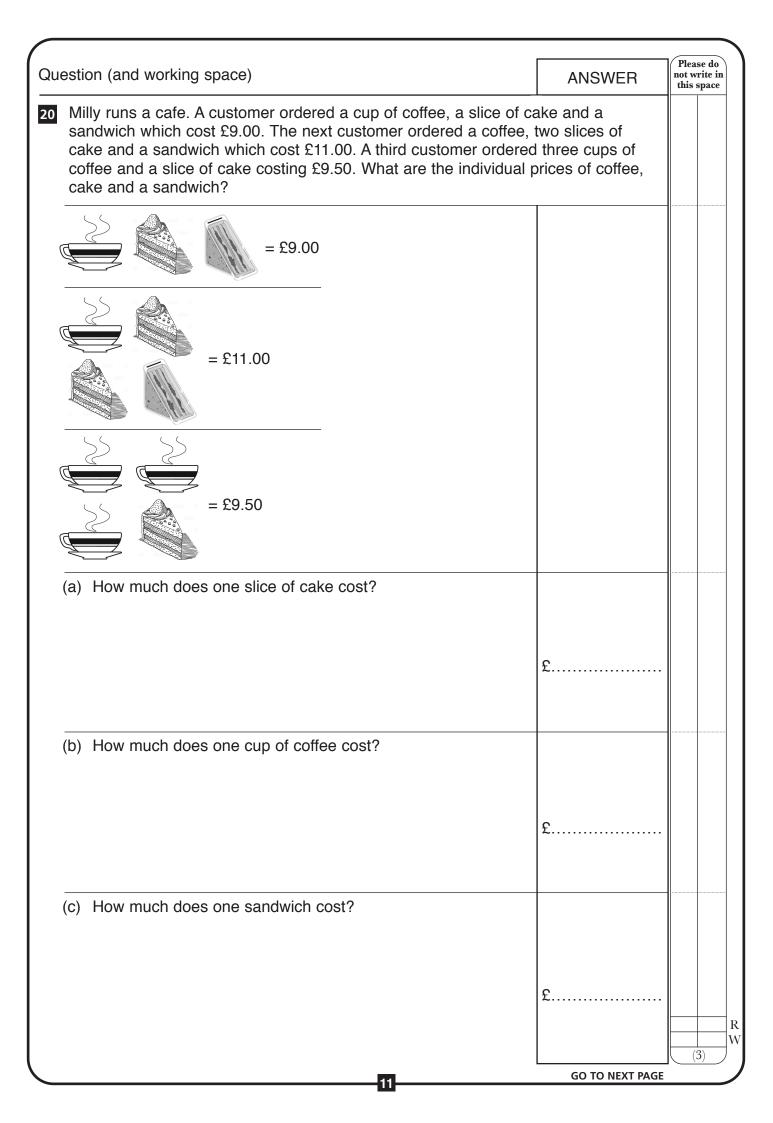
Questi	on (and working space)	ANSWER	Please do not write in this space
11 (a)	The shape is a regular pentagon with centre O. How many degrees is angle A?		
(b)	How many degrees is angle B?		
12 (a)	Six French rowers have a total weight of 570kg. Find their average (mean) weight.	kg	
(b)	Four American rowers have an average weight of 90kg. When they join up with two British rowers the average weight of all six rowers is 88kg. What is the average weight of the two British rowers?	kg	
(c)	Two steel tubes have an average weight of 12kg. The heavier one weighs twice as much as the lighter one. What does the lighter one weigh?	kg	
<u>ر</u>	6	GO TO NEXT PAGE	

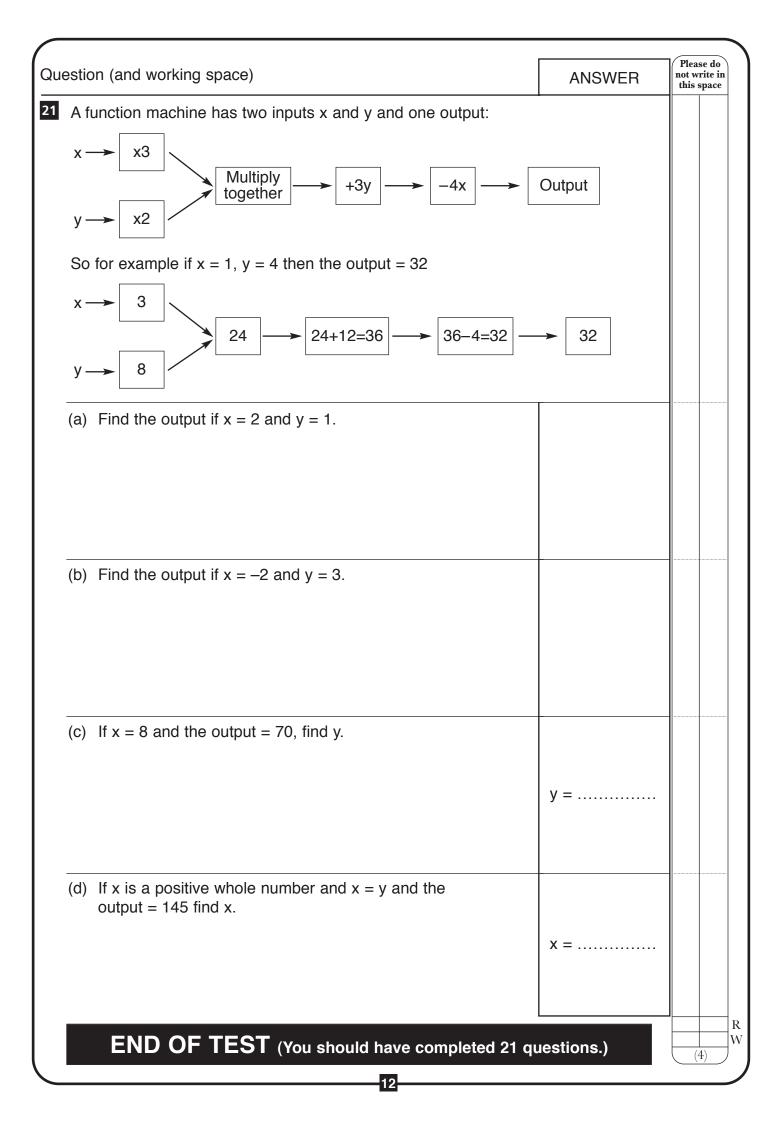
estion (and working space)	ANSWER	Please d not write this space
The graph shows the price of crude oil over a week.		
Monday Tuesday Wednesday Thursday Friday		
 (a) Find the cost in US dollars of five barrels of oil on Wednesday. 		
	US dollars	
(b) Find the number of barrels of oil which could be bought for \$1260 on Monday.		
(c) On Friday £1 = \$1.25. Find the cost of three barrels of oil in pounds and pence on Friday.		
	£	
Find numbers x and y if they add up to 71 and have a difference 13 and x is larger than y.	Lbetween them of	
	x =	
	y =	
7	GO TO NEXT PAGE	(5)

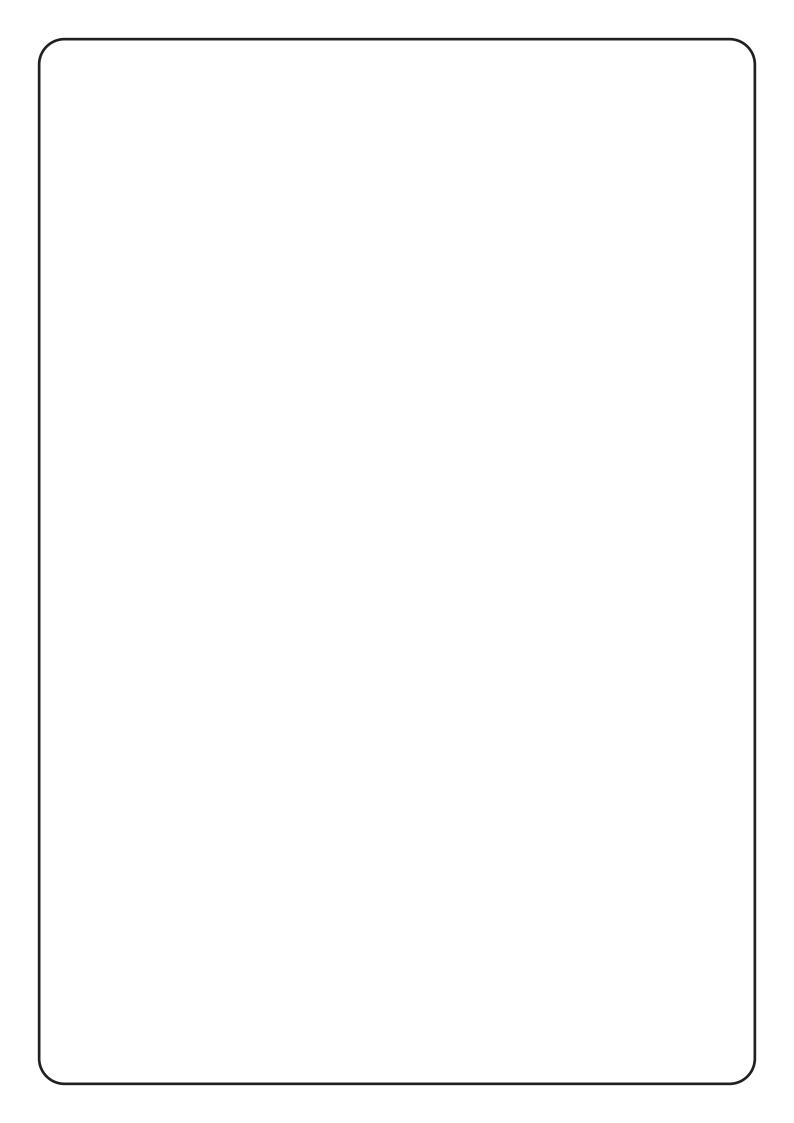
uestion (and working space)	ANSWER	Please do not write in this space
For each of these statements, say if they are always true, somet never true:	times true or	
(a) When you multiply an odd number by 101, you get an odd number.		-
	true	
(b) When you add two square numbers, you get a square number.		
	true	
(c) When you multiply two square numbers you get a square number.		
	true	
(d) When you take the average of two prime numbers you get a prime number.		-
	true	
8	GO TO NEXT PAG	(4)

Qu	estion (and working space)			AN	NSWER	Please do not write in this space
16	Two sequences are written Sequence A Sequence B Sum of sequence A and B		1 st term 5 100 105	2nd term 8 98 106	3rd term 11 96 107	
	(a) What would be the 10th	term in sequence A?				
	(b) At what term would seq	uence A reach 101?				
	(c) At what term would seq	uence A equal sequen	ce B?			
	(d) At what term would the equal 1000?	sum of sequence A an	d sequence	В		
17	(a) The triangle below has added up) of 75. Find x		all three side			
	(b) The triangle below has 71-5× 4x 10x-2	a perimeter of 120. Fir	id x.	x =		
		0		G	O TO NEXT PAGE	

Questio	n (and working space)	ANSWER	Please do not write in this space
18 (a)	Calculate $2\cdot 6 + 8\cdot 34 =$		
(b)	Calculate $3 \cdot 1 - 0 \cdot 64 =$		
(C)	Calculate $3.1 \times 1.2 =$		
(d)	Calculate $16.8 \div 1.2 =$		
19 (a)	Find 15% of £140.		
(b)	A coat costs £45. Its price is increased by 20%. Find the new price.	£	-
		£	
(C)	The cost of a jacket is increased by 20%. After the increase if costs £108. What did it cost before the increase?	£	
		GO TO NEXT PAGE	(7)









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