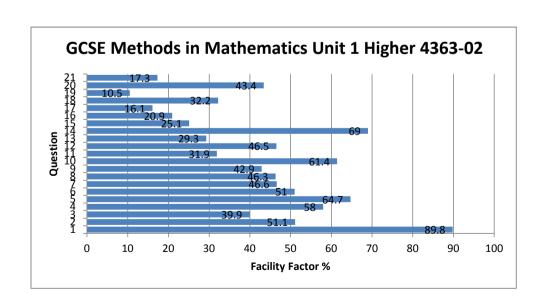
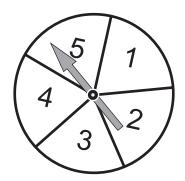
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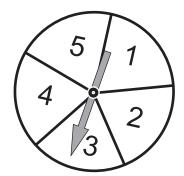
GCSE Methods in Mathematics Unit 1 Higher 4363-02

All Candidates' performance across questions

?	?	?	?	?	?	?	_
Question Title) ×	Mean	S D	Max Mark) F	Attempt %	
1	379	4.5	0.8	5	89.8	99.7	
2	372	3.1	2.1	6	51.1	97.9	\leftarrow
3	379	2.8	1.8	7	39.9	99.7	
4	379	2.3	1.3	4	58	99.7	
5	380	3.2	1.6	5	64.7	100	
6	378	2	1.4	4	51	99.5	\leftarrow
7	361	1.9	1.6	4	46.6	95	
8	365	1.4	1.2	3	46.3	96	\vdash
9	374	2.6	1.9	6	42.9	98.4	
10	378	4.9	2.7	8	61.4	99.5	
11	367	1.3	1.4	4	31.9	96.6	
12	358	2.8	2.1	6	46.5	94.2	
13	363	0.6	0.7	2	29.3	95.5	
14	379	2.8	1.1	4	69	99.7	
15	376	0.8	0.9	3	25.1	99	
16	351	0.8	1.2	4	20.9	92.4	
17	363	0.6	1.4	4	16.1	95.5	
18	372	1.6	1.2	5	32.2	97.9	
19	250	0.6	1.1	6	10.5	65.8	
20	354	3	2.8	7	43.4	93.2	
21	320	0.5	1	3	17.3	84.2	







The two spinners are spun.

The score is the total of the two numbers shown on the spinners.

The score shown above is eight.

There are two different game cards, card A and card B.

A game is played, crossing out the scores from the spinners on the game card as the spinners are spun repeatedly.

The first game card with all four scores crossed out is the winning card.

Game card A

3	2
9	10

Game card B

4	6
5	7

Which game card is more likely to be the winning card? You must show your working and give a reason for your answer.					
••••					
•••••					
••••					



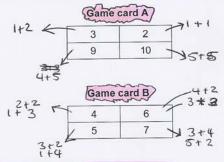


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[6]

cord Ctame them,

5	
	Examiner only
Card B has 2 options	
e.g to get the number 6, you could have	
einer 4+2 or 3+3; and	
you need to get 10	,
on game card A, you	
only have the option of 5+3	5

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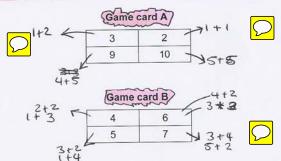


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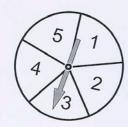
cord Ctame them,

Card B nas 2 options e.g to get the number 6, you come nave einor 4 + 2 or 3 + 3, and y you need to get 10 on game card A, you only have the option g 5 + 3.		
e.g. bo get the number 6, you could nave either 4 t 2 or 3 + 3, and if you need to get 10 on game cord A, you only have the option of 5 t 5.	5	
einer 4+2 or 3+3, and if you need to get 10 on game card A, you only have the option of 5+5.		
einor 4+2 or 3+3, and if you need to get 10 on game card A, you only have the option of 5+5.		-
on game card A, you only have the option of StS.	einer 4+2 or 3+3, an	_a
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[6]

2. You will be assessed on the quality of your written communication in this question.





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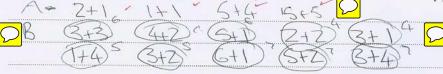
3	2
9	10

Game card B

4	6
5	7

Which game card is more likely to be the winning card? You must show your working and give a reason for your answer.

[6]



82



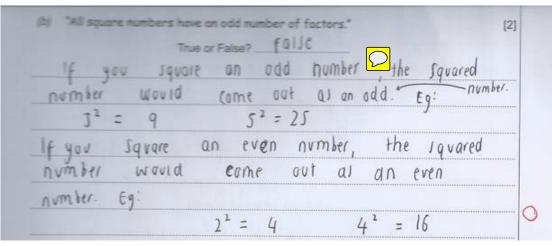
which equals the number	Examiner only
where as gome could b has	
also has 125 but there of 17 a better chose of numbers for 17.	
	E1
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6.	State whether the following statements are true or false.
	You must give a reason for each of your answers.

(u)	"All prime numbers have more than two factors."	[2]
	True or False?	

•••••		
•••••		
(b)	"All square numbers have an odd number of factors."	[2]
(b)	"All square numbers have an odd number of factors." True or False?	[2]
(b)		[2]
(b)		[2]
	True or False?	

	Tru	e or False?	FOIL	Ē		
1F 4	ou Javai	e an	odd	humber	, the	Squared
nomber	Would	(ome	out	Q) an	odd.	Eq: number
J ²	= 9	5	2 = 2.	5		J
1f 400	Square	an ev	en 1	rumber,	the	1 g vared
number	would	ean	e o	ut al	an	even
number.	Eq:					
) ² =	4		4 =	16





16 = 1×16 2×8:4×4		(b) "All square numbers have an odd number of factors." True or False?
$16 = 1 \times 16, 2 \times 8, 4 \times 4$	ont.	some do some dor
0 - 1 6		16 = 1×16, 2×8, 4×4
9-1×9, 5×2		9=1×9,3×3



		ers have an od True or Fa	1	\se		
	Som	o do	SO	ne d	dont.	
/6	> = \×	16,2	×8.4	× 4		
	7=1-	9	3 x 3			
		7		***************************************		





Diagram not drawn to scale

ABC is a straight line, AB:BC is 3:8 and the length of BC = 36 cm. Calculate the length of AC.

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- 1	IJΙ.
-	- 4

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