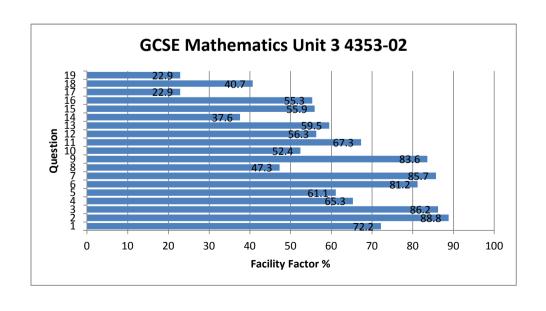
WJEC 2014 Online Exam Review

GCSE Mathematics Unit 3 4353-02

All Candidates' performance across questions

?	?	?	?	?	?	?	
Question Title	N	Mean	S D	Max Mark	F F	Attempt %	
1	1222	6.5	2.2	9	72.2	99.9	
2	1223	2.7	0.6	3	88.8	100	
3	1221	6	1.3	7	86.2	99.8	
4	1221	5.2	2.2	8	65.3	99.8	
5	1206	2.4	1.8	4	61.1	98.6	\leftarrow
6	1197	1.6	0.8	2	81.2	97.9	
7	1215	3.4	1.2	4	85.7	99.3	
8	1199	1.4	1	3	47.3	98	
9	1212	1.7	0.6	2	83.6	99.1	
10	1160	2.1	1.4	4	52.4	94.8	\leftarrow
11	1209	4	2	6	67.3	98.9	
12	1186	2.3	1.8	4	56.3	97	
13	1198	2.4	1.6	4	59.5	98	\leftarrow
14	1197	2.6	1.5	7	37.6	97.9	
15	1131	1.1	1	2	55.9	92.5	
16	1145	1.7	1.3	3	55.3	93.6	
17	1184	1.6	2.2	7	22.9	96.8	
18	1175	2.9	2.8	7	40.7	96.1	\leftarrow
19	1118	0.9	1.3	4	22.9	91.4]



wo brothers, Gethin and David, share a sum of money in the ratio 2:7. David gets £30 more than Gethin. Calculate how much money the brothers share.	[4]



Two brothers, Gethin and David, share a sum of money in the ratio 2:7. David gets £30 more than Gethin. Calculate how much money the brothers share.

[4]

Gethin gets David gets

Total mency=30@15x9= \$ 54

Gethin gets = $54 \times \frac{2}{9} = 12$ David gets = $54 \times \frac{2}{9} = 12$ Two brothers, Gethin and David, share a sum of money in the ratio 2:7. David gets £30 more than Gethin. Calculate how much money the brothers share.

[4]

Gethin gets $\frac{2}{9}$ David gets $\frac{2}{9}$

Total mency=30&154= \$ 54

Gethin gets = $54 \times \frac{2}{9} = f_{12}$ David gets = $54 \times \frac{2}{9} = f_{42}$

- G					
,2	<u>.</u>	7,	5	7-2=	5
(x6		x6)(307)	30 + 5 =	. 6
12	: 4	2 = 30	+12 =9:	2	-000476011
		Čc	heck)	TT III TO TO THE TOTAL THE	
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G	. D		······	
/2	. 7.		₹ 7-8=5	
(x6	x 6	(301)	300 = 5=0	5
(2	: 42 6	- 30 + 12	= 42	
(10011001110111011101111111111111111111		Ccheck)	

2+7:9		
£30-4=33 2×33=66		
7×3.3 = 23 I		
W		
	£6.6 and £23.1	

1994	2+7:9		CHORDINITION CO.
1	30-9-33		
	2×33:66		
	7x33:231		
		£6.6 and £23.1	

141			

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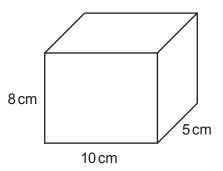


Diagram not drawn to scale

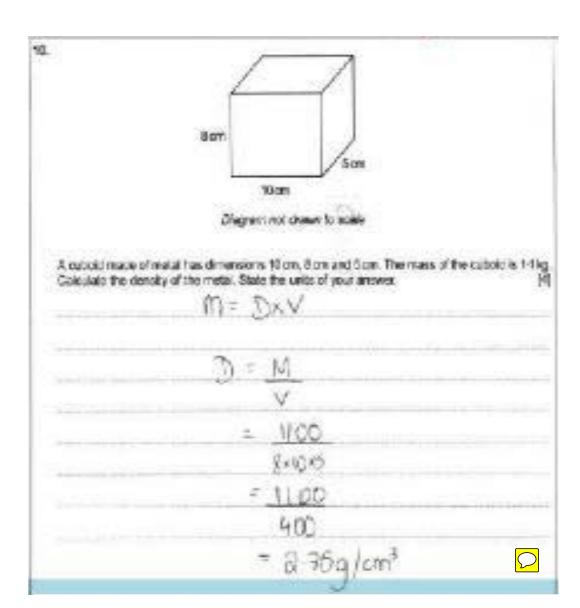
A cuboid made of metal has dimensions 10 cm, 8 cm and 5 cm. The mass of the cuboid is 1·1 kg. Calculate the density of the metal. State the units of your answer. [4]

(4353-02)



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Turn over.



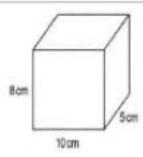


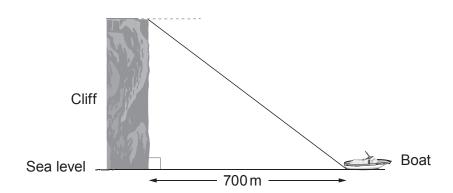
Diagram not drawn to scale

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Lx Wx L = 8x 10	* 5: 400 cm	
	= 4m	
	(5//0	1,1
		4:0.775b/m5



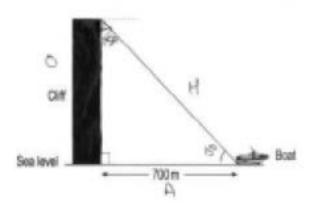
13.	From the top of a vertical cliff, the angle of depression of a sailing boat is 15°.	
	If the sailing boat is 700 m from the base of the cliff, calculate the height of the cliff above	sea
	level.	[4]



•••••	 	•••••••••••••••••••••••••••••••••••••••



From the top of a vertical cliff, the angle of depression of a sailing boat is "5".
 If the sailing boat is 700m from the base of the cliff, calculate the height of the cliff above see level.

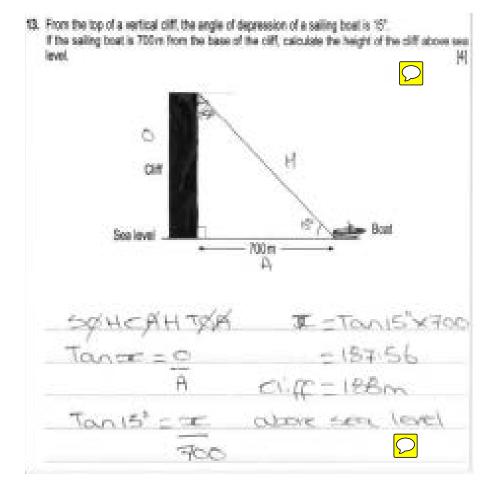


SØHCAHTØR I = Tanis" x700

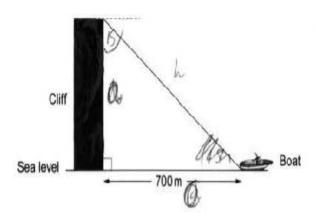
Tan== = = 187.56

A cliff=188m

Tanis" = = above sea level



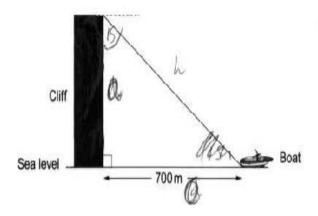
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Makent + tax 13 290 Leight = 100

= 2612m

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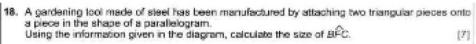
Maken + towas Jagon
Light = 100

= 2612m

Examiner only

18.	3. A gardening tool made of steel has been manufactured by attaching two triangular pieces onto a piece in the shape of a parallelogram.			
	Using the information given in the diagram, calculate the size of $\stackrel{\frown}{BFC}$. [7]	i		
	F			
	14 cm			
	/ 18 cm			
	A 15 cm B			
	52°			
	10 cm			
	68° C			
	E Diagram not drawn to scale			
		-		
		-		
		-		





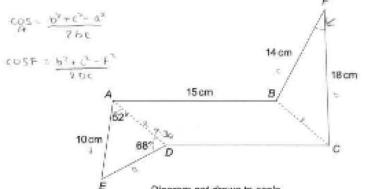


Diagram not drawn to scale

*** A & D = 450 - 66-57

AD = BC (AO) e_ = a_

> Sune suno AQ = (Q.

Sunep Sunes

AD =/ 10 \ x Sunto Sunos)

= 9.34 cm (240)

BFC= 30-80 (1dp) cose = 62 + 52 - 5 2

(OSF = 152 + 142 - 9.342

LXEXIL

= 0.8586595238 F= cos-1 (0.858 ...

