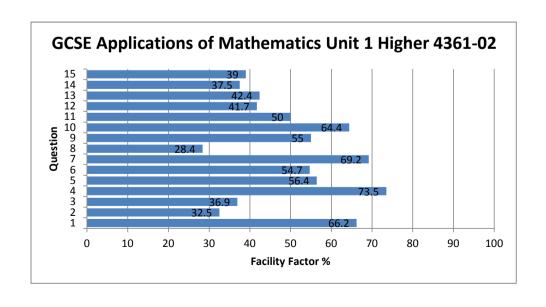


WJEC 2014 Online Exam Review

GCSE Applications of Mathematics Unit 1 Higher 4361-02

All Candidates' performance across questions

?	?	?	?	?	?	?	
Question Title	N	Mean	S D	Max Mark	F F	Attempt %	
1	434	2.6	1	4	66.2	100	\downarrow
2	429	2.3	2.4	7	32.5	98.8	\leftarrow
3	427	1.5	1.2	4	36.9	98.4	\leftarrow
4	432	6.6	2.1	9	73.5	99.5	
5	432	4.5	2.3	8	56.4	99.5	
6	432	3.8	1.9	7	54.7	99.5	
7	432	4.8	1.7	7	69.2	99.5	
8	396	1.4	2	5	28.4	91.2	
9	428	2.7	1.5	5	55	98.6	
10	432	6.4	3.4	10	64.4	99.5	
11	413	3.5	2.3	7	50	95.2	
12	413	1.3	1.1	3	41.7	95.2	
13	423	3.8	3.3	9	42.4	97.5	
14	429	3.7	3.1	10	37.5	98.8	
15	408	1.9	1.8	5	39	94	



	03
~	0
9	0
က	7
4	0

questions fi		he survey questionnaire a How old are you?	are shown below.		
		Put a tick in the box.	under 20		
			20 to 30		
			30 to 40		
			older than 40		
	2.	Do you buy books? Put a tick in the box.			
			Yes		
			No		
Explain w	hy th	is may be a biased surve	y.		[1]
State a cr	iticisr	m about the design of que	estion 1 in the surv	ey.	[1]
Write a q	uesti to pa	on with a selection of a y for a paperback book.	nswer boxes, to fi	nd out how much pe	eople are [2]
	State a cr	Explain why th State a criticism	2. Do you buy books? Put a tick in the box. Explain why this may be a biased survey. State a criticism about the design of que	Put a tick in the box. under 20 20 to 30 30 to 40 older than 40 2. Do you buy books? Put a tick in the box. Yes No Explain why this may be a biased survey. State a criticism about the design of question 1 in the surv Write a question with a selection of answer boxes, to fi	Put a tick in the box. under 20 20 to 30 30 to 40 older than 40 2. Do you buy books? Put a tick in the box. Yes No Explain why this may be a biased survey. State a criticism about the design of question 1 in the survey. Write a question with a selection of answer boxes, to find out how much personal content of the survey.

see you are	e 30 years old.
Write a question with a selection of answ prepared to pay for a paperback book.	wer boxes, to find out how much people are [2]
repared to pay for paperb'ack book?	
ick one box.	D£5-£6

(c) Write a question with a selection of answer boxes, to find out how prepared to pay for a paperback book. How much are you	much people are [2]
tick one box. I \$5-\$6 I more t	than £6

********	there's not enough	n range in the age	
(0)		ction of answer boxes, to find out how muck book.	ch people a [:
	JF3-13.99	□18 - £8.qq	
] +4 - +4.99	D19- 19.99	
	165-E5-99	0 7 t10	
] £6 - £6.99		
L	JE7- E7.99		
2000000			

drespon.		
(c) Write a question with a select prepared to pay for a paperback		[2] Quest
Df3-13.99	□18- £8.99	
D \$4 - 14.99	D=9-+9.99	
DES-ES-99	0 7 ±10	
DE6 - £6.99		
DE7- 67.99		

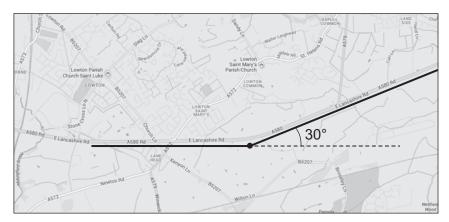


Diagram not drawn to scale

Using a pair of compasses and a ruler, construct a line that shows the direction of the gas pipe as it follows the road after the 30° turn.
You must show all of your construction lines and arcs. [3]

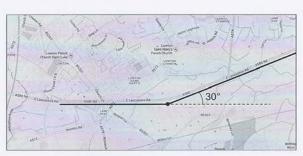


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[3]

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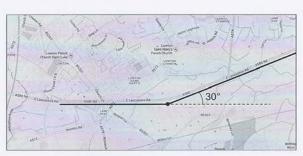


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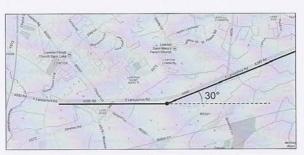
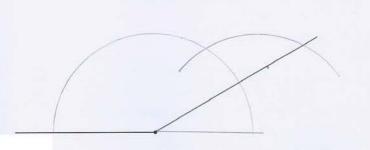


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(4361-02)

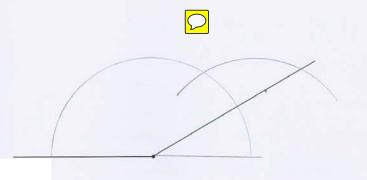
Turn over.



Diagram not drawn to scale

Using a pair of compasses and a ruler, construct a line that shows the direction of the gas pipe as it follows the road after the 30° turn.
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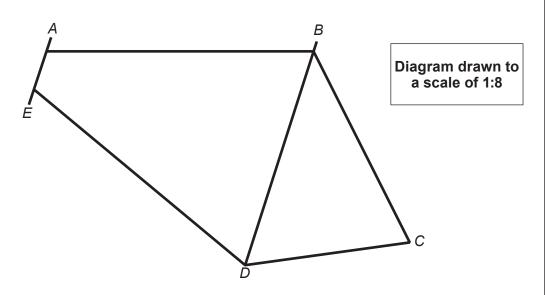
(4361-02)

Turn over.

3. Bikes are built around a frame.



Below is a scale drawing of a bike frame.

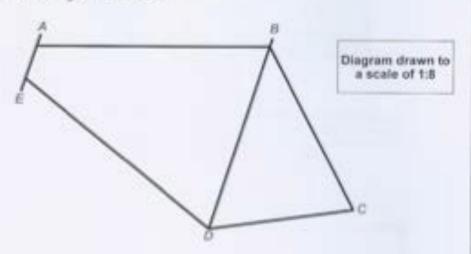


(a)	Give your answer in metres .	[2]
•••••		· · · · · · · ·
(b)	Is <i>AE</i> parallel to <i>BD</i> ? Use angle facts to give a reason for your answer.	[2]

Bikes are built around a frame.



Below is a scale drawing of a bike frame.



(a) Write down an approximate length of the cross bar AB. Give your answer in metres.

[2]

[2]

56cm

0.56 M

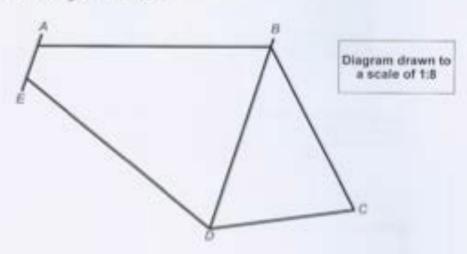
(b) is AE parallel to 807 Use angle facts to give a reason for your answer.

ingle E is 110°, and angle 15° 70°. 110 + 70 = 180° they are paradel.

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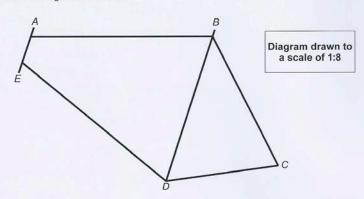




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(a) Write down an approximate length of the cross bar AB. Give your answer in **metres**.

[2]

(b) Is AE parallel to BD?
Use angle facts to give a reason for your answer.

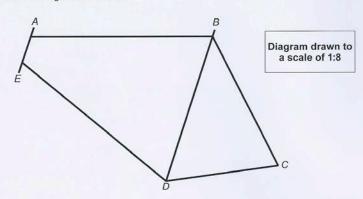
[2]

No because the DBC angle isn't equivelant to the FAB angle, so eventually, they will most.

3. Bikes are built around a frame.



Below is a scale drawing of a bike frame.



Write down an approximate length of the cross bar AB. Give your answer in **metres**.

[2]

7.20% 8 = 57.6em

MI AD

(b) Is AE parallel to BD?
Use angle facts to give a reason for your answer.

No because be DBC angle isn't equivelant to the

FAB angle, so eventually, they will meet.