Surname

Other Names



GCSE

4353/01

MATHEMATICS (UNITISED SCHEME) UNIT 3: Calculator-Allowed Mathematics FOUNDATION TIER

A.M. TUESDAY, 17 June 2014

1 hour 30 minutes

ADDITIONAL MATERIALS

A calculator will be required for this paper.

A ruler, a 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.

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 or use the π button on your calculator.

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.

You are reminded that assessment will take into account the quality of written communication (including mathematical communication) used in your answer to question **6**.



For Examiner's use only

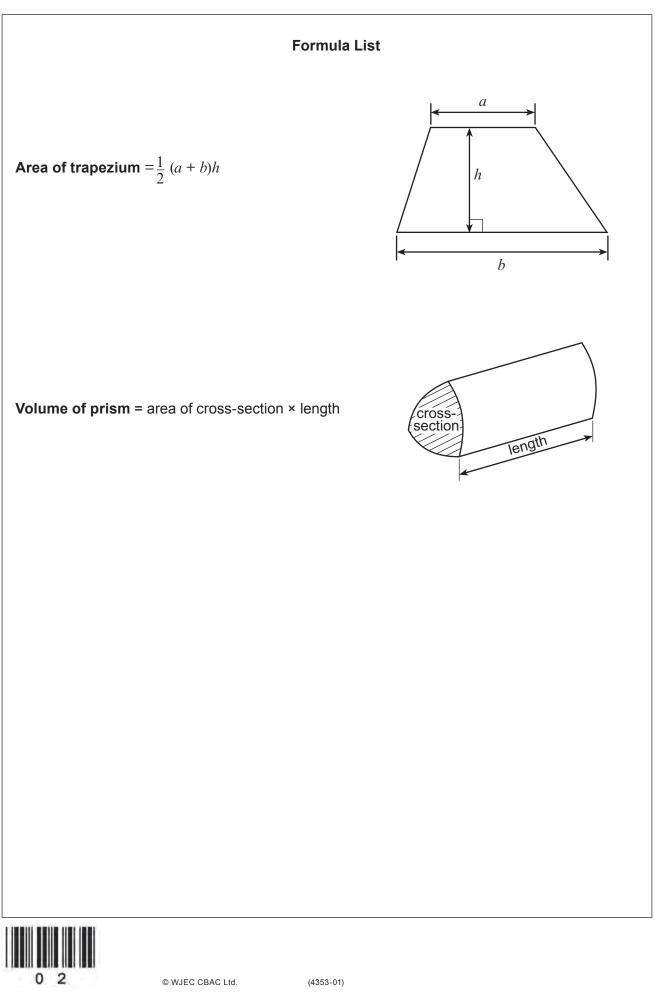
Centre

Number

,									
Question	Maximum Mark	Mark Awarded							
1.	6								
2.	3								
3.	2								
4.	5								
5.	6								
6.	6								
7.	1								
8.	10								
9.	5								
10.	5								
11.	3								
12.	5								
13.	5								
14.	3								
15.	2								
16.	4								
17.	2								
18.	3								
19.	4								
Total	80								

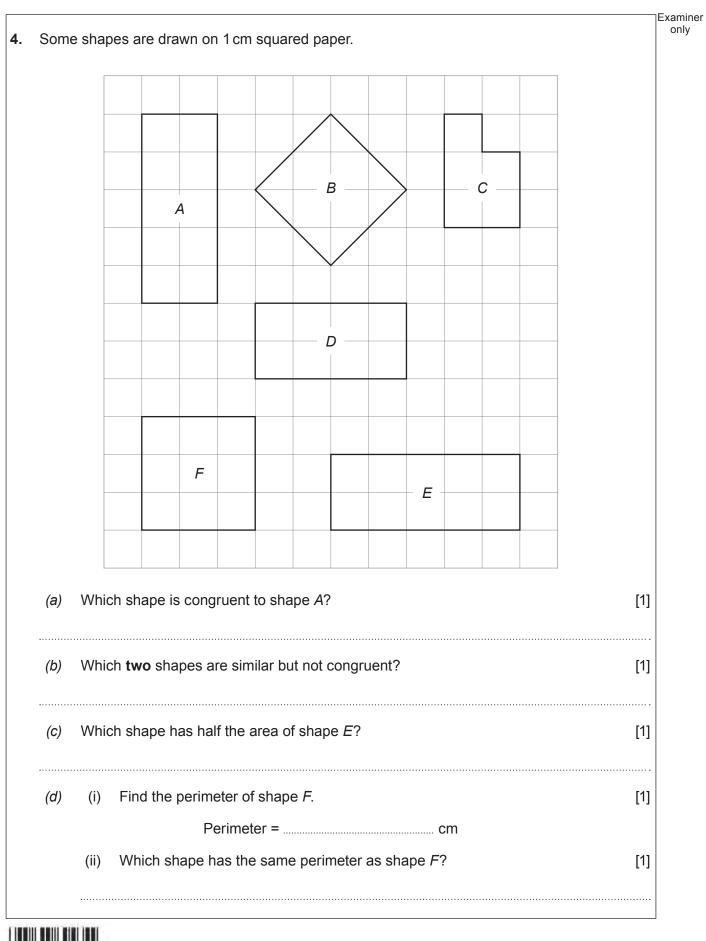
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	works.					
	Complete the summ	hary of his earnings	s for last week.		[4]	
	Days worked	Hours worked	Rate of pay	Earnings		
	Monday to Friday	16 hours	£6 per hour	£		
	Saturday	5 hours	£6.84 per hour	£		
	Sunday	2 hours	£7.40 per hour	£		
			Total	£		
(b)	Barry is paid 5% of					
	How much was Bar	ry paid as a bonus	last week?		[2]	
•••••						
Write <i>(a)</i>	e 457·832 correct to 1 decimal	place,			[1]	
					[1]	
(a)	correct to 1 decimal	st whole number,				
(a) (b) (c)	correct to 1 decimal correct to the neare correct to the neare	st whole number, st hundred.	lue of M when $A = 1$	8 and <i>B</i> = 3	[1]	
(a) (b) (c)	correct to 1 decimal correct to the neare	st whole number, st hundred.	lue of M when $A = 3$	8 and <i>B</i> = 3.	[1]	
(a) (b) (c)	correct to 1 decimal correct to the neare correct to the neare	st whole number, st hundred.	lue of M when $A = 3$	8 and <i>B</i> = 3.	[1]	
(a) (b) (c)	correct to 1 decimal correct to the neare correct to the neare	st whole number, st hundred.	lue of M when $A = 3$	8 and <i>B</i> = 3.	[1]	
(a) (b) (c)	correct to 1 decimal correct to the neare correct to the neare	st whole number, st hundred.	lue of M when $A = 3$	8 and <i>B</i> = 3.	[1]	







Examiner A jar contains a total of 24 marbles. 5. The marbles are only red, yellow, blue or green. There are 8 red marbles. • • The number of yellow marbles is half the number of red marbles. • There is an equal number of blue and green marbles. • Use this information to fill in the table. [2] (a)

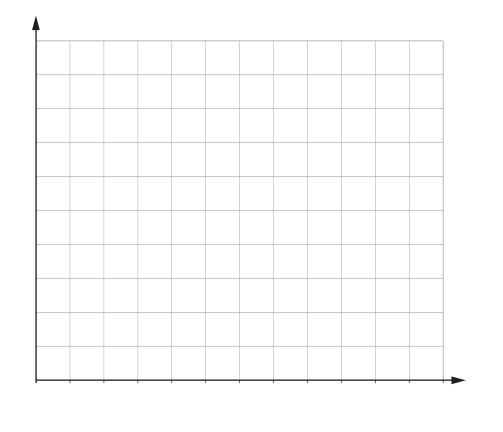
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Colour of marbles	Red	Yellow	Blue	Green
Number of marbles	8			

(b) Draw a bar chart to show the number of red, yellow, blue and green marbles in the jar. [4]

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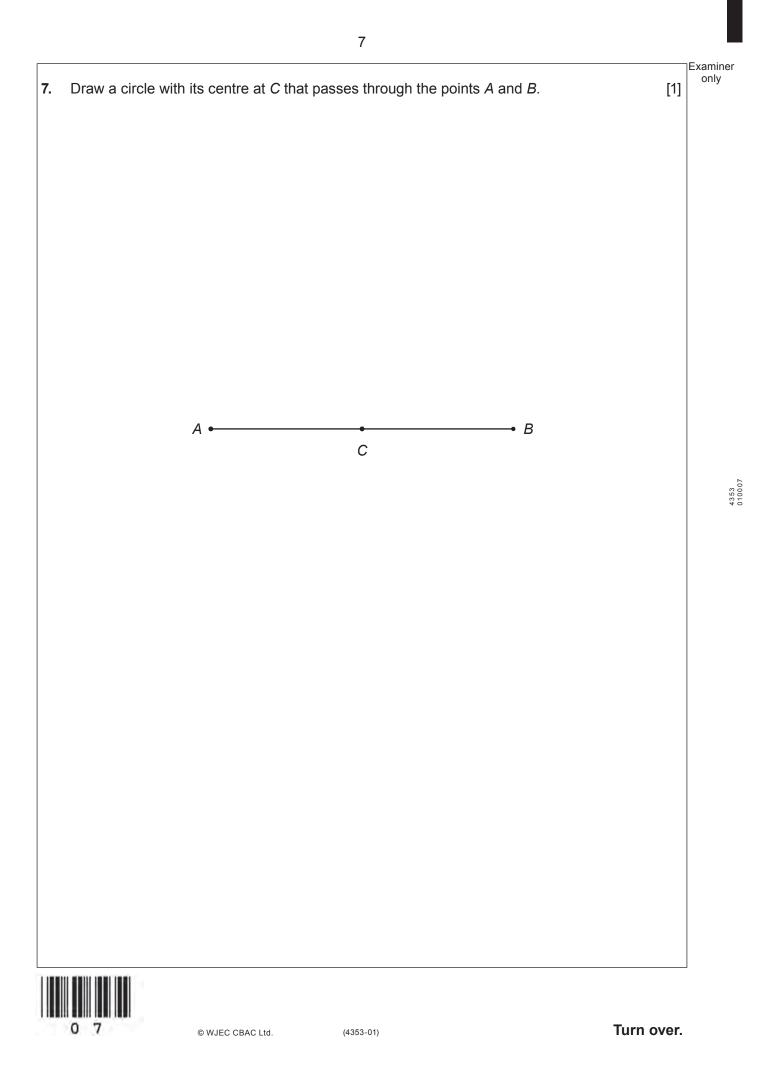
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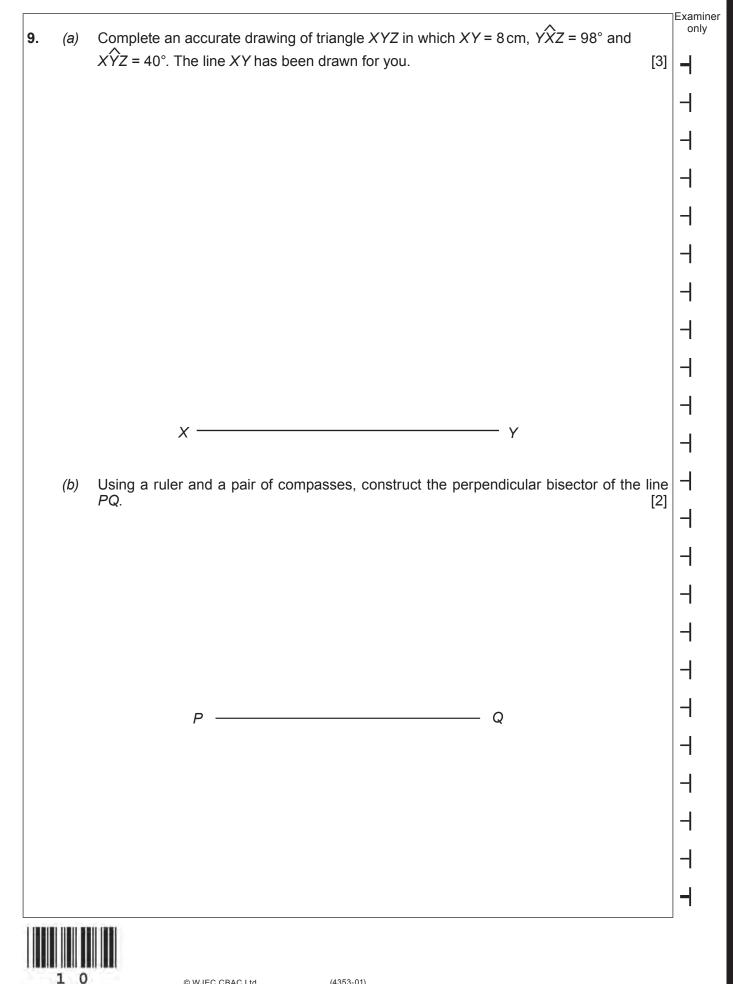
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You will be assessed on the quality of your written communication in this question.	
Jane has £15 to spend on buying packets of biscuits. A packet of biscuits costs 89p.	
She buys as many packets of biscuits as possible.	
How many packets of biscuits does she buy and what change does she receive? Show all your working.	[6]
]

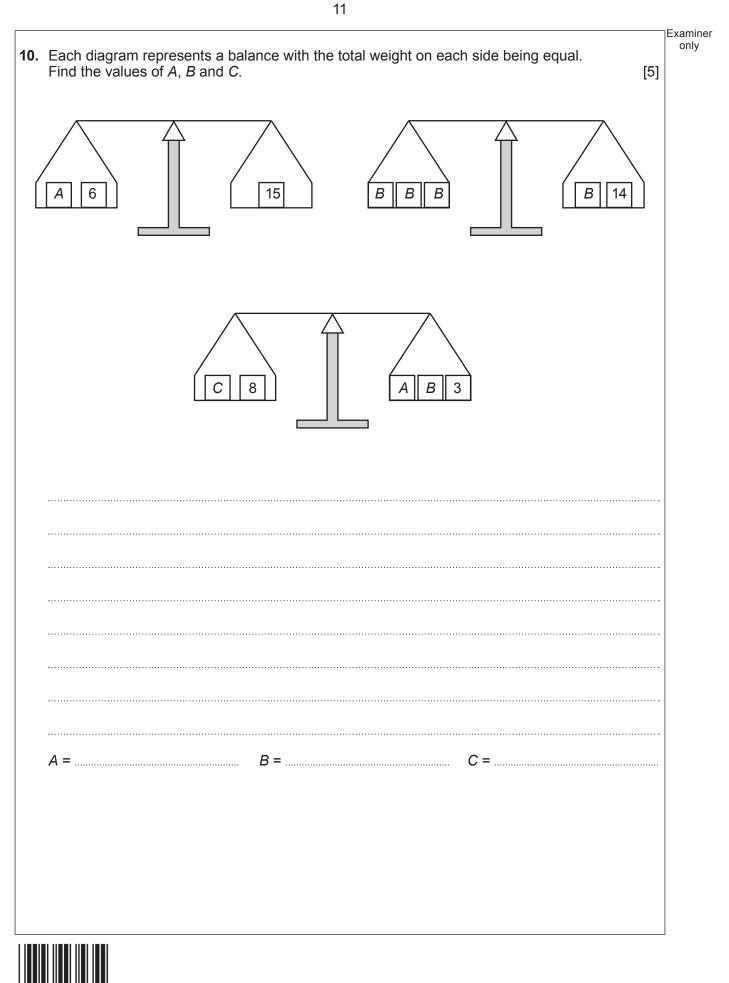


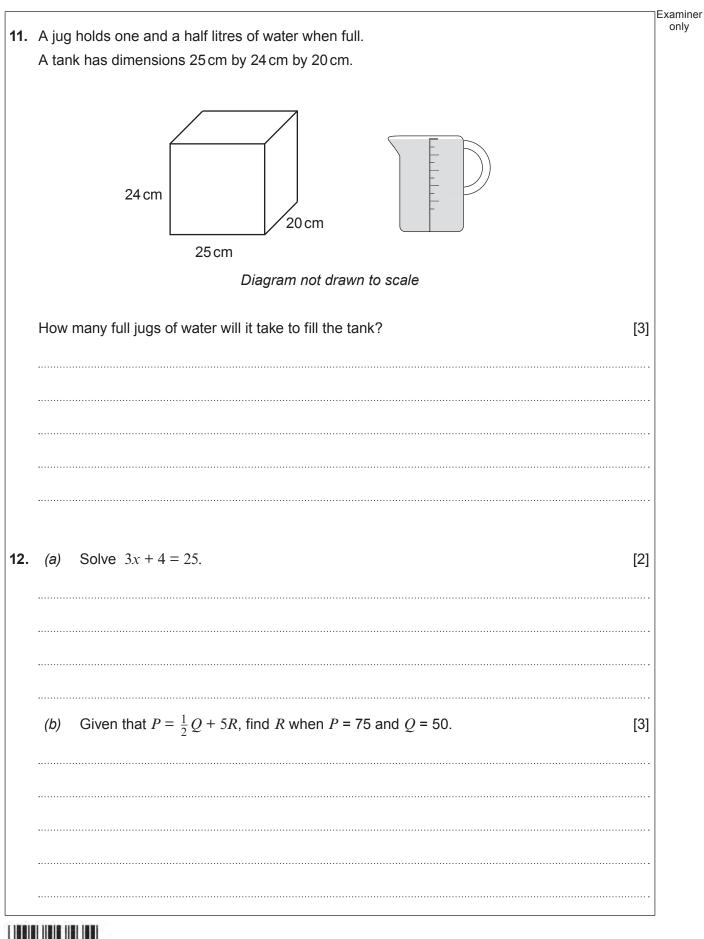


City			Berlin	Calgary	Cardiff	Delhi	Milan	Moscow	New York	
Temp	eratur	re (°C)	0	-39	11	42	11	1	-5	
	(i)	What	is the diffe	erence in te	emperature	between t	he warme	est and colde	est cities?	[2]
	(ii)	What	is the mec	lian tempe	rature reco	rded?				[2]

Ionth	Jan.	Feb.	Mar.	Apr.	May	June	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Temperature (°C)	1	4	2	7	11	16	17	21	19	10	7	11
	ind the elow.	mean	and ra	ange of	f these	tempe	rature	readin	gs and	comp	lete th	e table [4]
						Card	liff			Pari	S	
Mean midday te	mperat	ure (°C)							15.8	3	
Range of midday	y tempe	erature	s (°C)							29		
P T U	aris. The mea Ise the	an was	found	to be 1	5∙8°C a	and the	range	was 2				
P 	aris.											[2]
												n over.

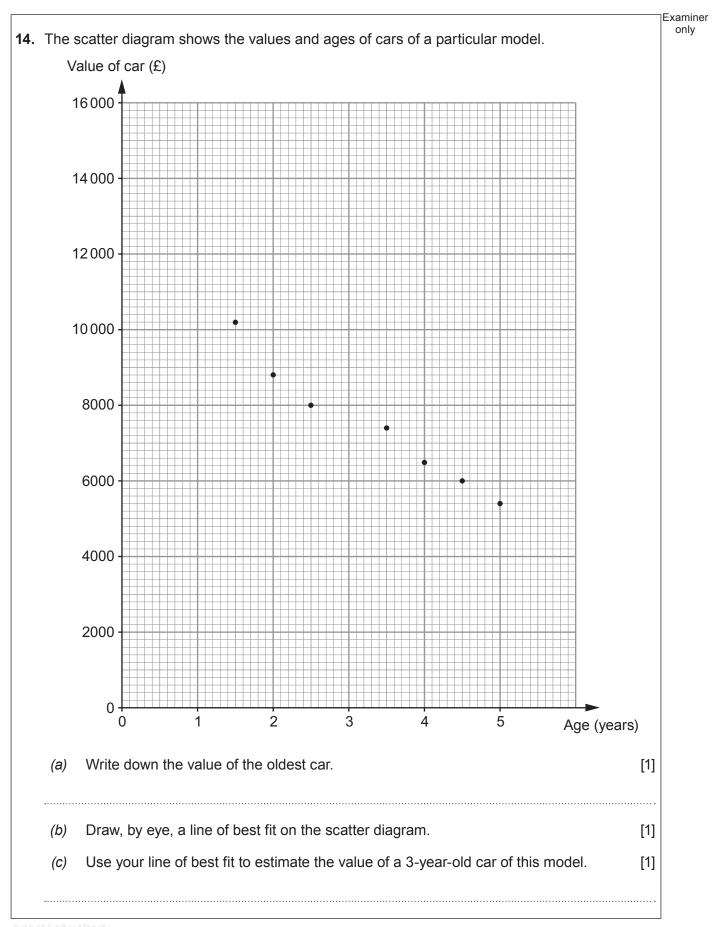




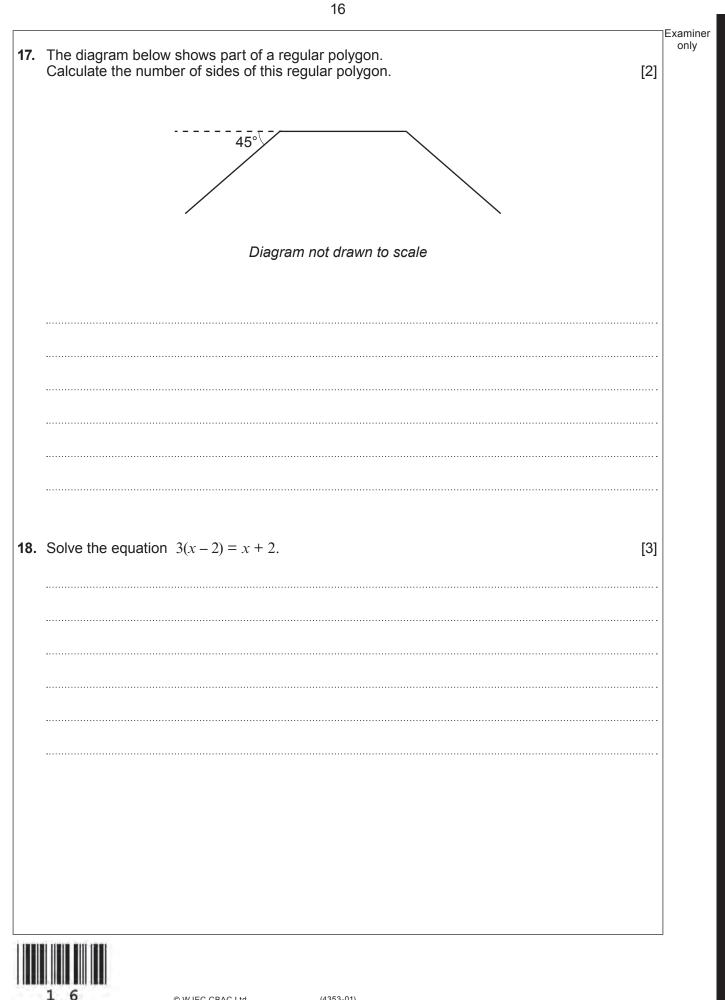


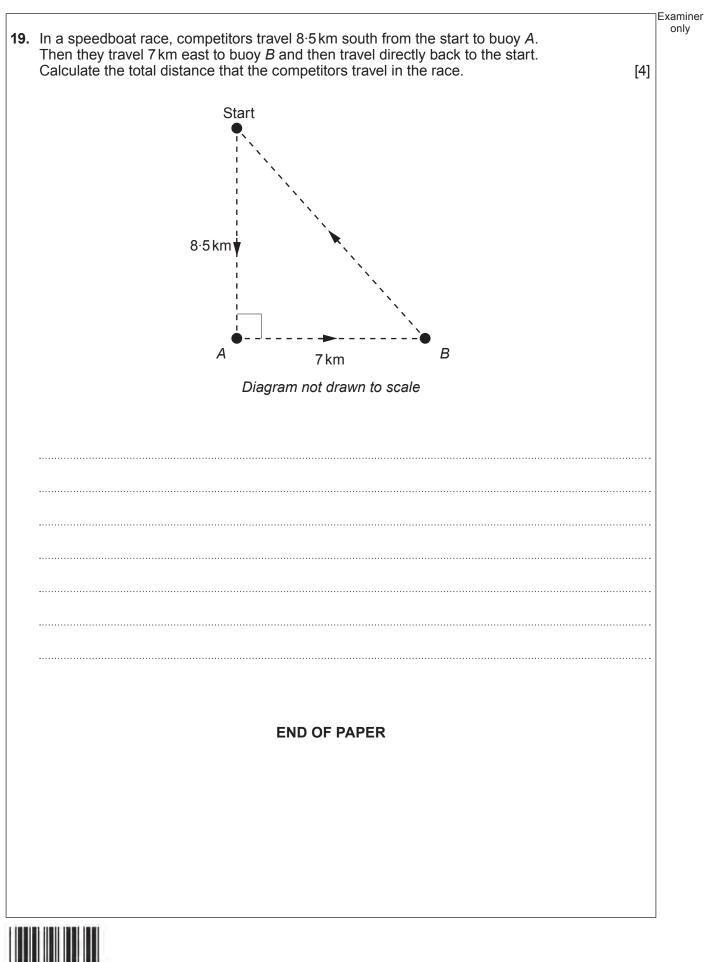


 Mr Jones uses 15000 units of gas in a year. 	
The cost of gas is 4.028 pence per unit used.	
• There is a fixed charge of £6.98 per month.	
There is a discount of £48 per year.	
Calculate Mr Jones's monthly payment . You must show all your working.	[5]



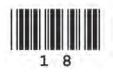
Examiner **15.** Evaluate $\frac{\sqrt[3]{90}}{10\cdot 5 - 7\cdot 74}$. Give your answer correct to 2 decimal places. only [2] **16.** Two brothers, Gethin and David, share a sum of money in the ratio 2:7. David gets £30 more than Gethin. Calculate how much money the brothers share. [4]





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