

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER		CANDIDATE NUMBER
* 7 8	MATHEMATICS		0580/23
8 4	Paper 2 (Extende	d)	October/November 2010
7 7			1 hour 30 minutes
	Candidates answe	er on the Question Paper.	
374*	Additional Materia	als: Electronic calculator Mathematical tables (optional)	Geometrical instruments Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.Write in dark blue or black pen.You may use a pencil for any diagrams or graphs.Do not use staples, paper clips, highlighters, glue or correction fluid.DO NOT WRITE IN ANY BARCODES.

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 70.

This document consists of 12 printed pages.



For

Use

1 Write down the number which is 3.6 less than -4.7. Examiner's Answer [1] 2 A plane took 1 hour and 10 minutes to fly from Riyadh to Jeddah. The plane arrived in Jeddah at 2305. At what time did the plane depart from Riyadh? [1] Answer Calculate $\sqrt[3]{2.35^2 - 1.09^2}$. 3 Give your answer correct to 4 decimal places. [2] Answer Shade the required region on each Venn diagram. 4 E Q E В Ŕ $A \cap B'$ $(P \cup Q) \cap R'$ [2]

2

0580/23/O/N/10

For Examiner's

Use

5 Show that $3\frac{3}{4} + 1\frac{1}{3} = 5\frac{1}{12}$. Write down all the steps in your working.

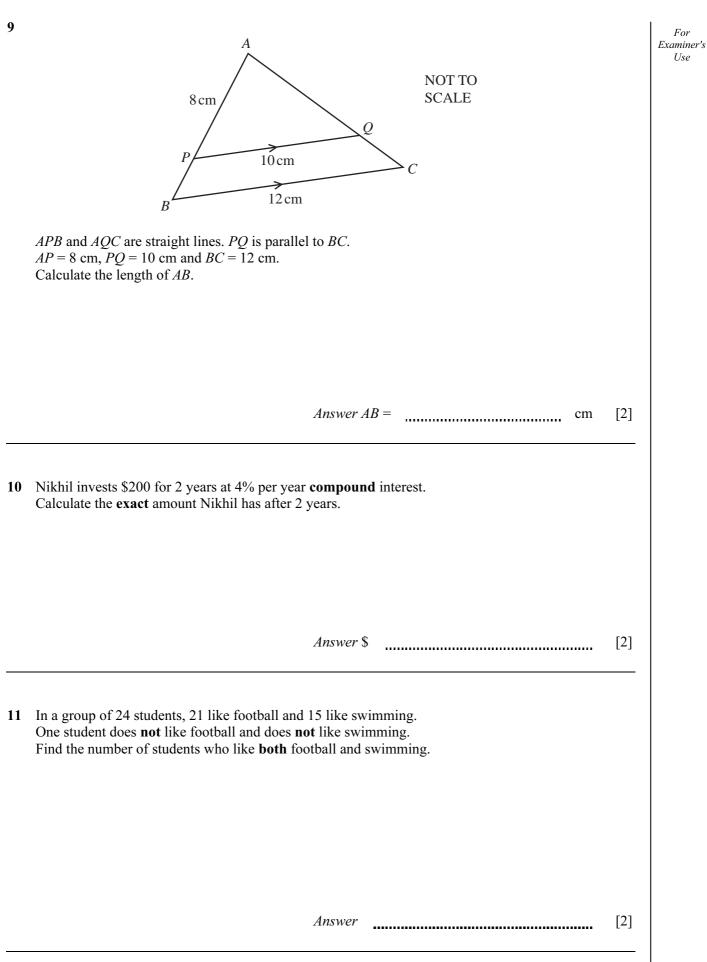
Answer

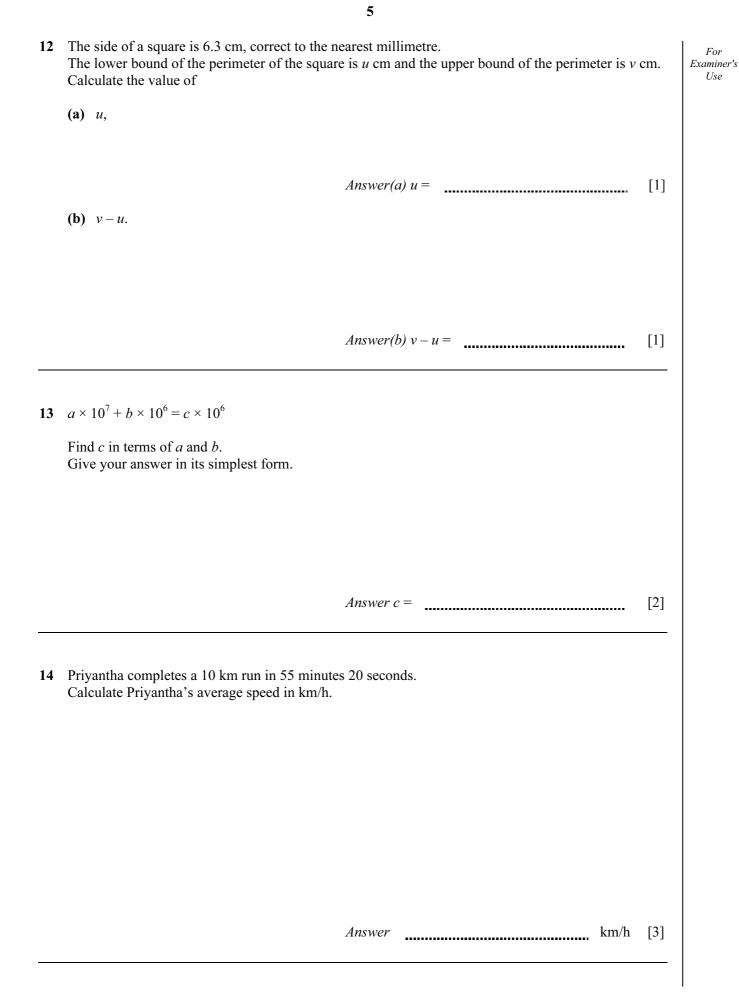
[2]

6	Write the following in order of size, smallest first.							
	$\frac{20}{41}$	$\frac{80}{161}$	0.492	4.93%				
		Answer	<		_ <	<	[2]	
7	In France, the cost of In the UK, the cost of $\pounds 1 = \pounds 1.04$. Calculate the different Give your answer in	f one kilogram	of apricots is					
			A	nswer£			[2]	
8	A large rectangular c Maria uses all this ca 15 millimetres . Calculate the number	rd to make sma	all rectangula			e tres by		

For

Use





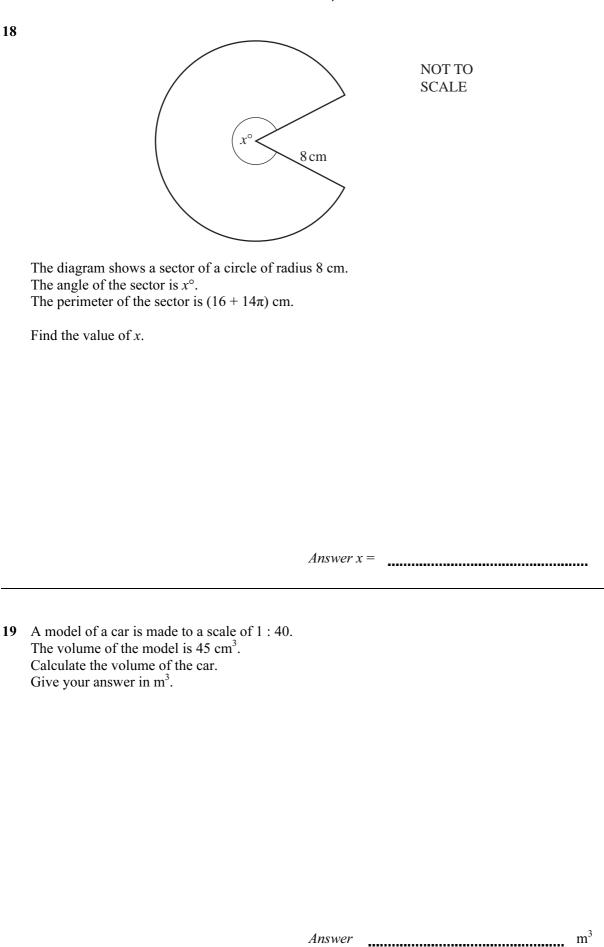
[Turn over

15 Find the equation of the straight line which passes through the points (0, 8) and (3, 2).

For Examiner's

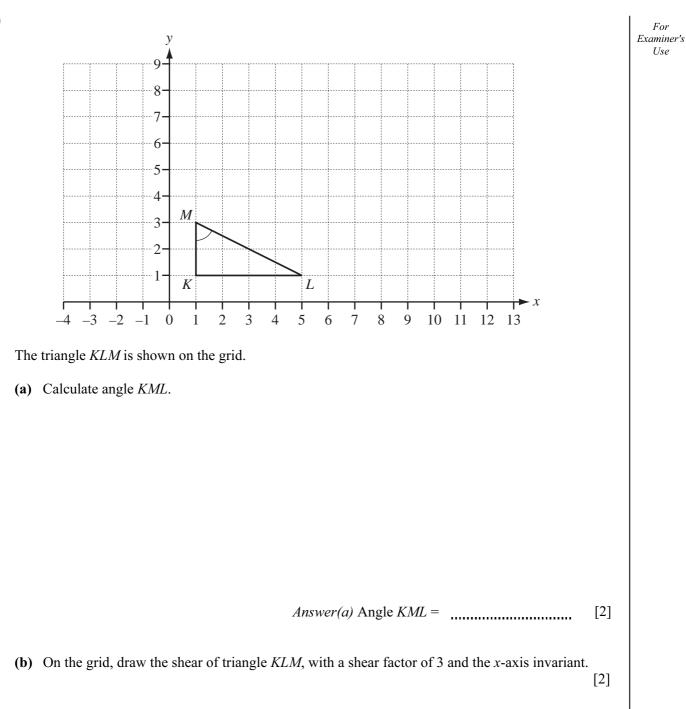
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18

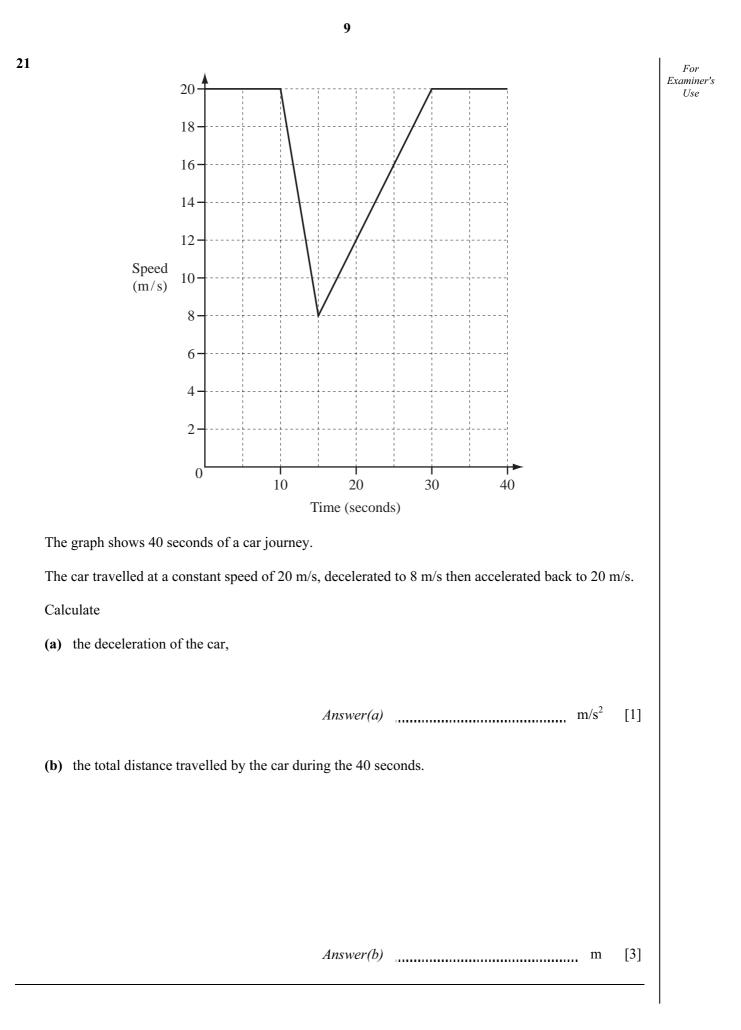


[3]

[3]



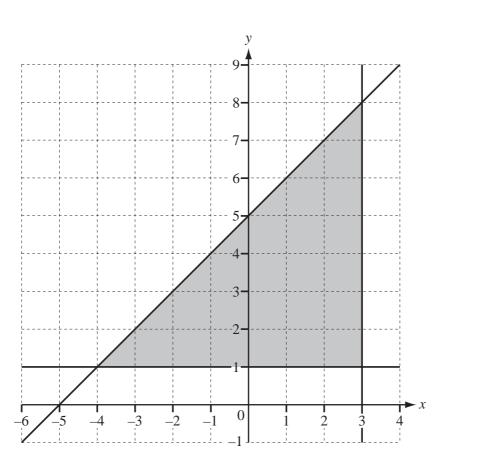
8



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For Examiner's

Use



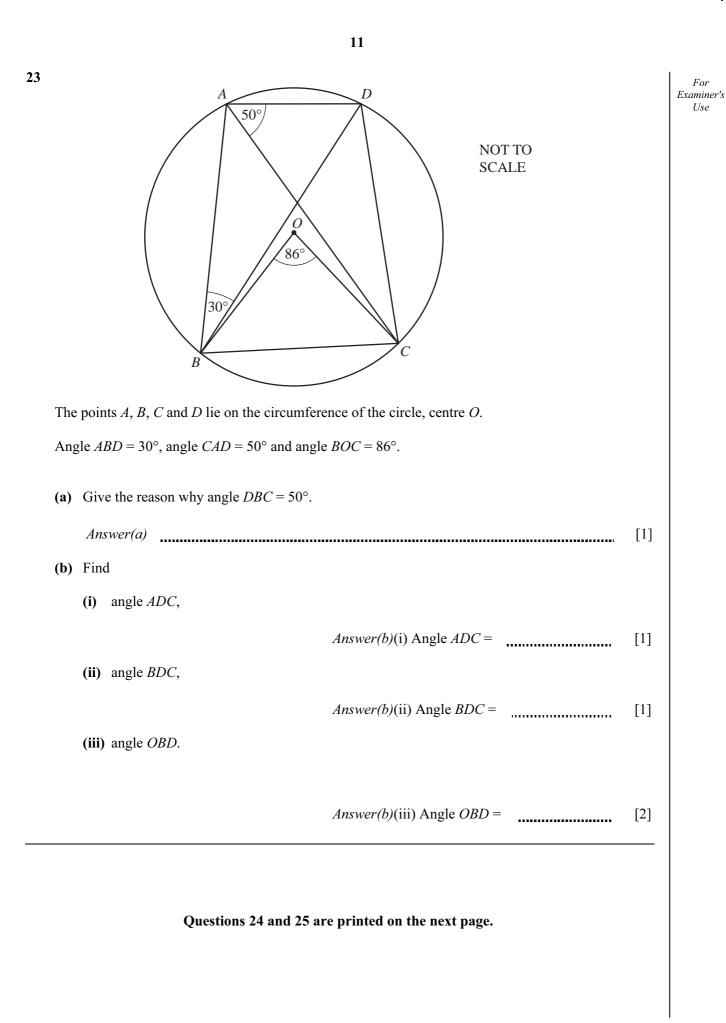
Find the three inequalities which define the shaded triangle in the diagram.

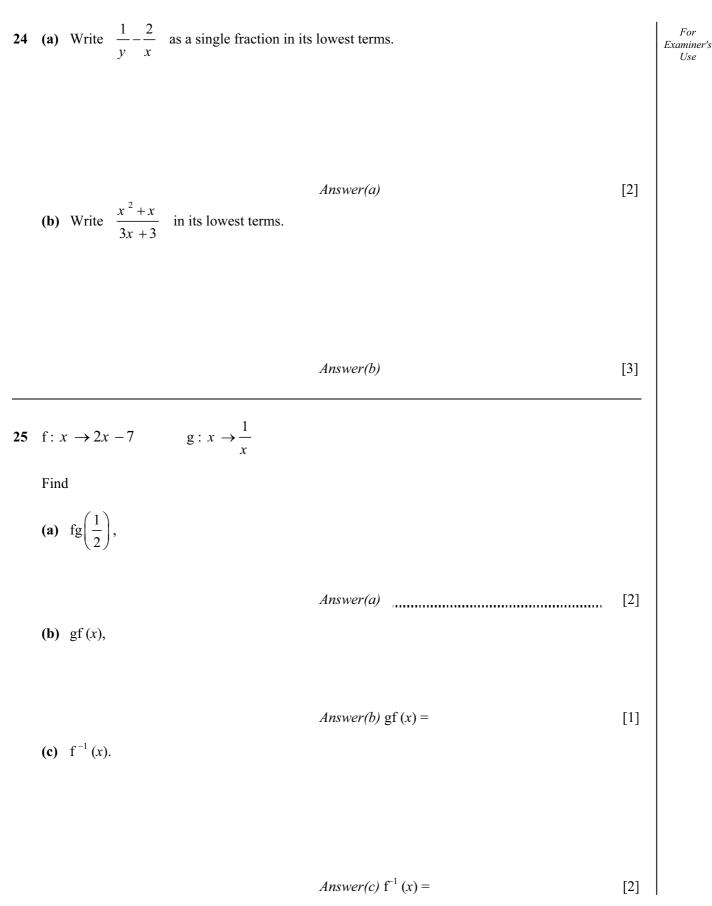
Answer

.....

......[5]

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