

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER		CANDIDATE NUMBER
* 2 3	MATHEMATICS		0580/12
	Paper 1 (Core)		October/November 2010
-1 8			1 hour
5	Candidates answe	er on the Question Paper.	
0 0 2 *	Additional Materia	Is: 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 56.

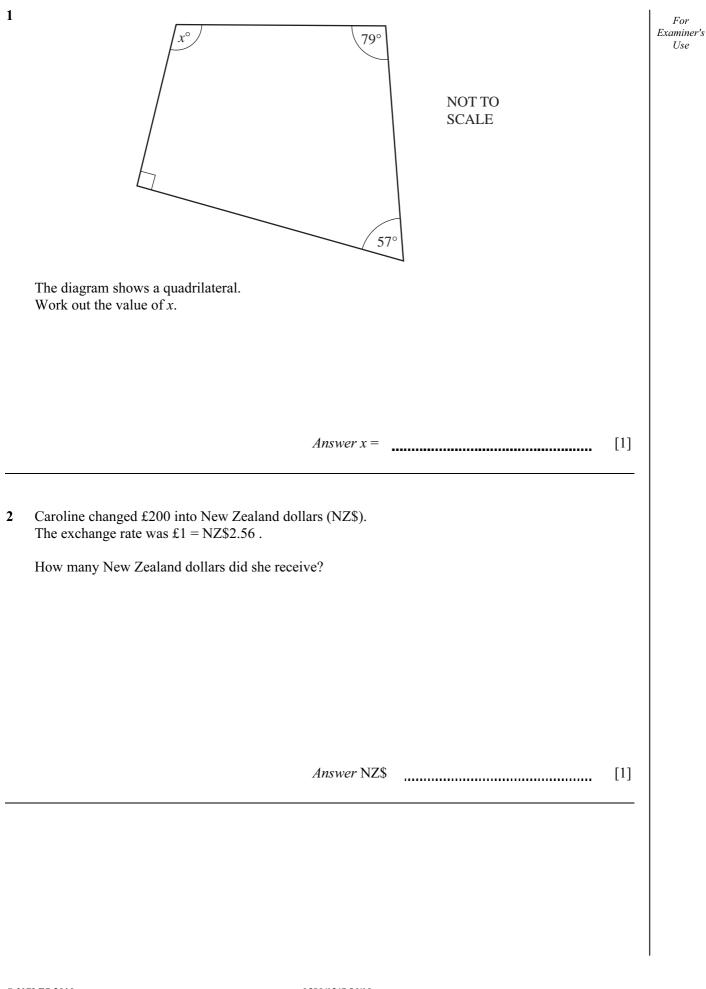
This document consists of **12** printed pages.



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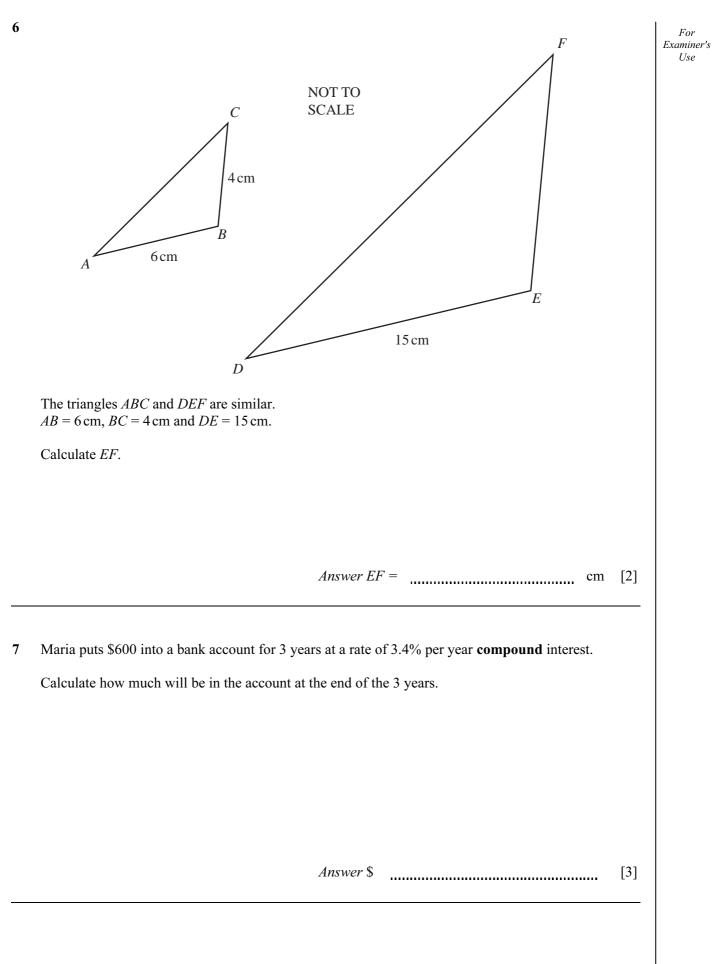


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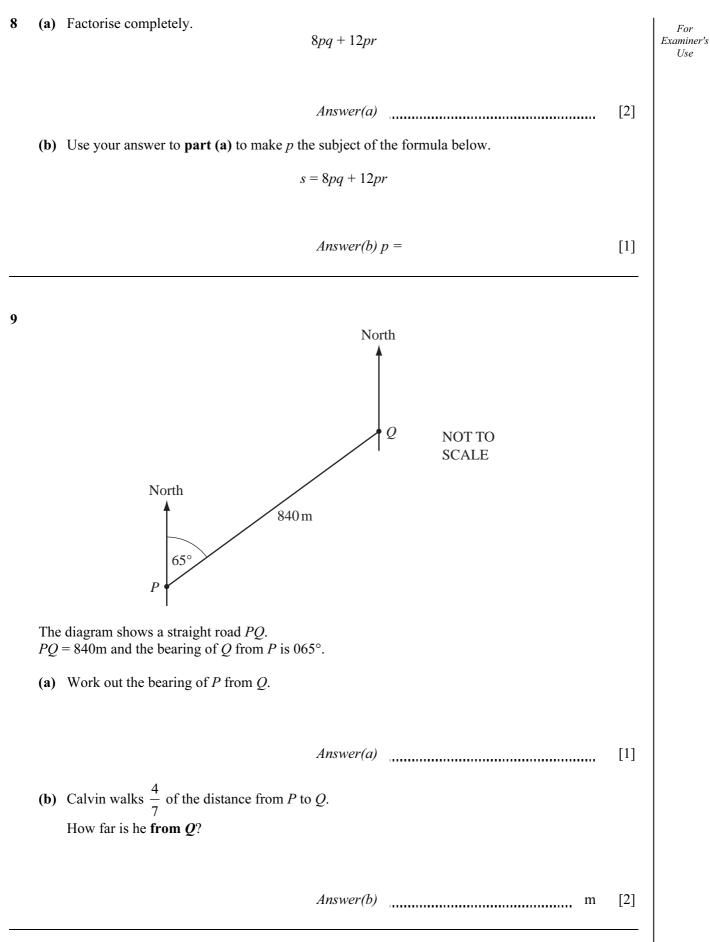
3	Francis recorded a temperature of -4°C on Sunday. By Monday it had gone down by 3°C.
	(a) Find the temperature on Monday.
	<i>Answer(a)</i> °C [1]
	(b) On Tuesday the temperature was -1° C.
	Find the change in temperature between Monday and Tuesday.
	Answer(b) °C [1]
4	The distance from the Sun to the planet Saturn is 1429400000 kilometres.
4	The distance from the Sun to the planet Saturn is 1429400000 kilometres. Write this distance in standard form, correct to 3 significant figures.
4	
4	
4	Write this distance in standard form, correct to 3 significant figures.
4	
	Write this distance in standard form, correct to 3 significant figures. Answer km [2]
5	Write this distance in standard form, correct to 3 significant figures.
	Write this distance in standard form, correct to 3 significant figures. Answer
	Write this distance in standard form, correct to 3 significant figures. Answer
	Write this distance in standard form, correct to 3 significant figures. Answer

3

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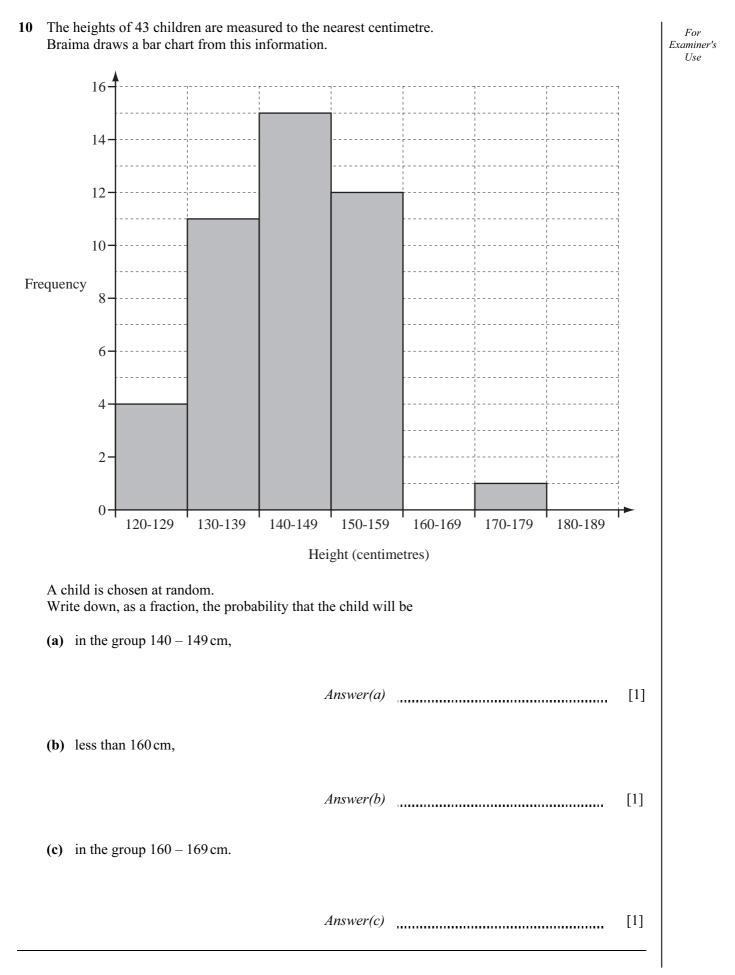


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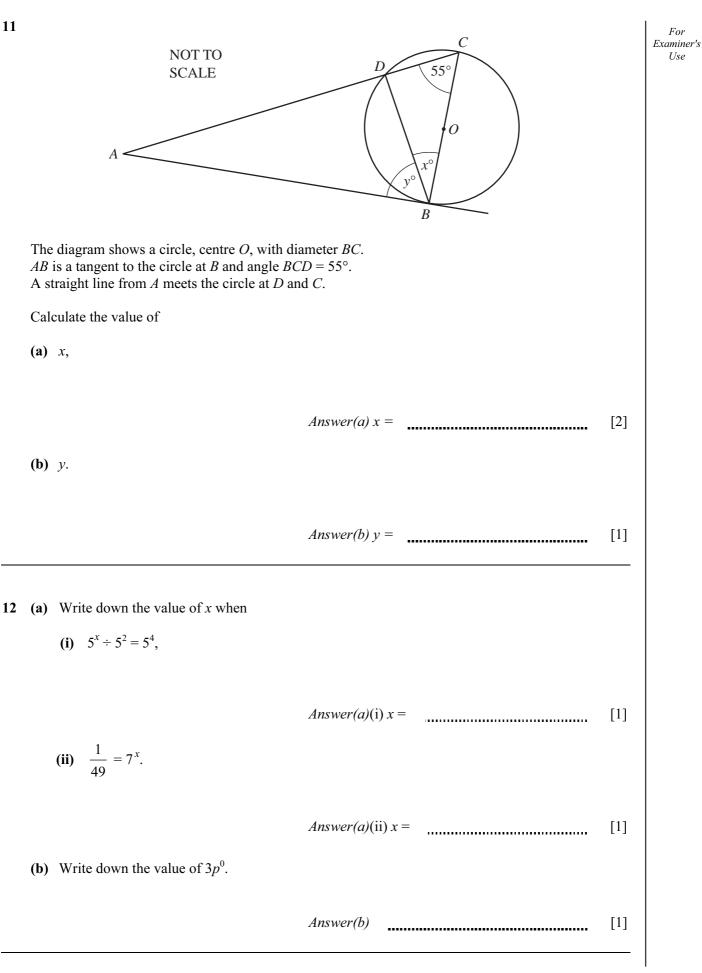
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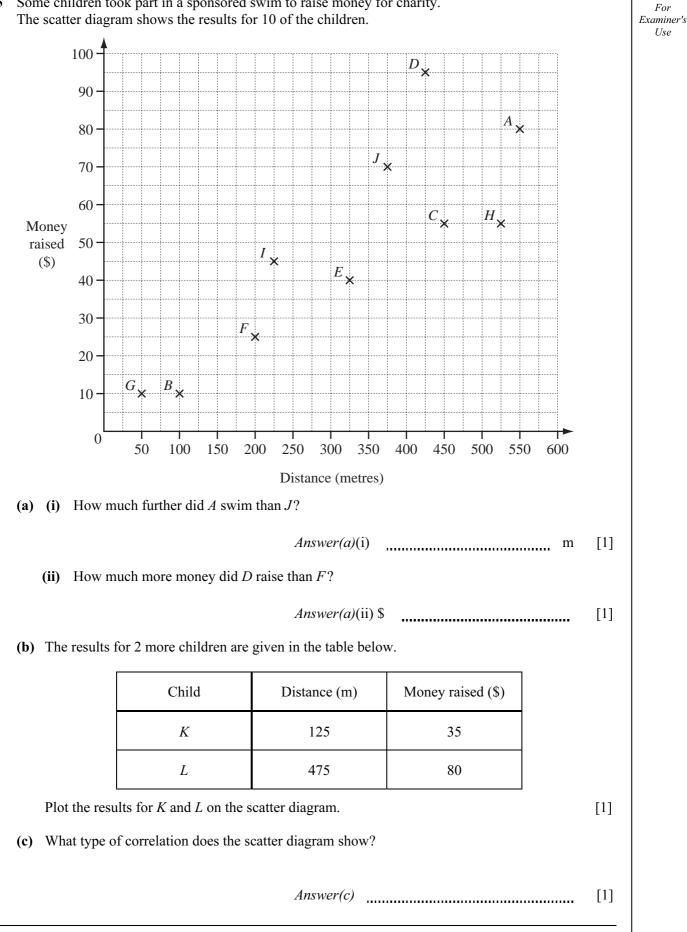
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- **13** Dominic, Esther, Flora and Galena shared a pizza.
 - (a) Dominic ate $\frac{1}{5}$ of the pizza and Esther ate $\frac{2}{7}$ of the pizza. Show that $\frac{18}{35}$ of the pizza remained. Do not use your calculator and show all your working. Answer (a) [2] (b) Flora ate $\frac{2}{3}$ of the **pizza that remained**. Find the fraction of the pizza that was left for Galena. Answer(b) [2] $9.6 \times 7.8 - 0.53 \times 86$ 4.95 (a) (i) Rewrite this calculation with each number written correct to 1 significant figure. Answer(a)(i) [1] (ii) Work out the answer to your calculation in part(a)(i). Do not use a calculator and show all your working. Answer(a)(ii) [2] (b) Use your calculator to work out the correct answer to the original calculation.

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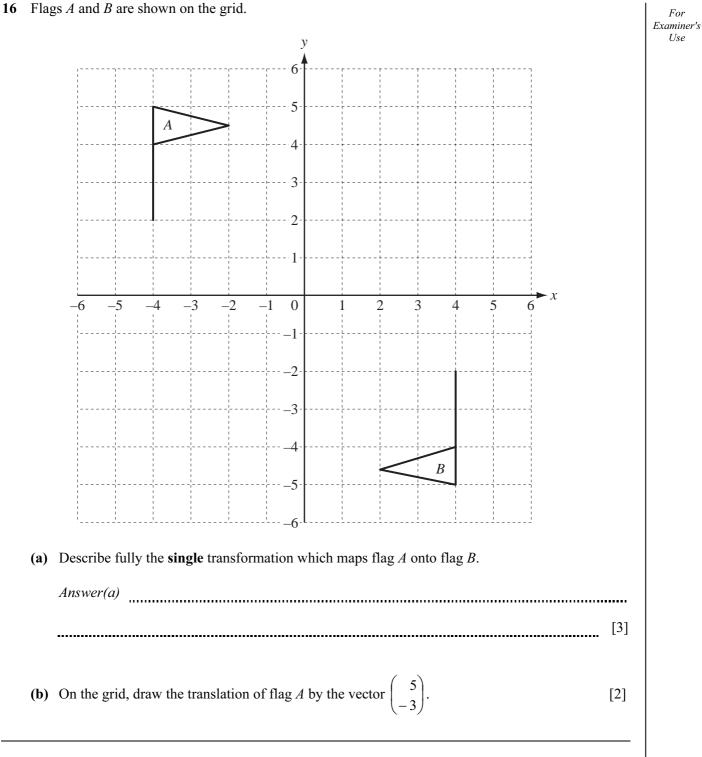
15 Some children took part in a sponsored swim to raise money for charity.

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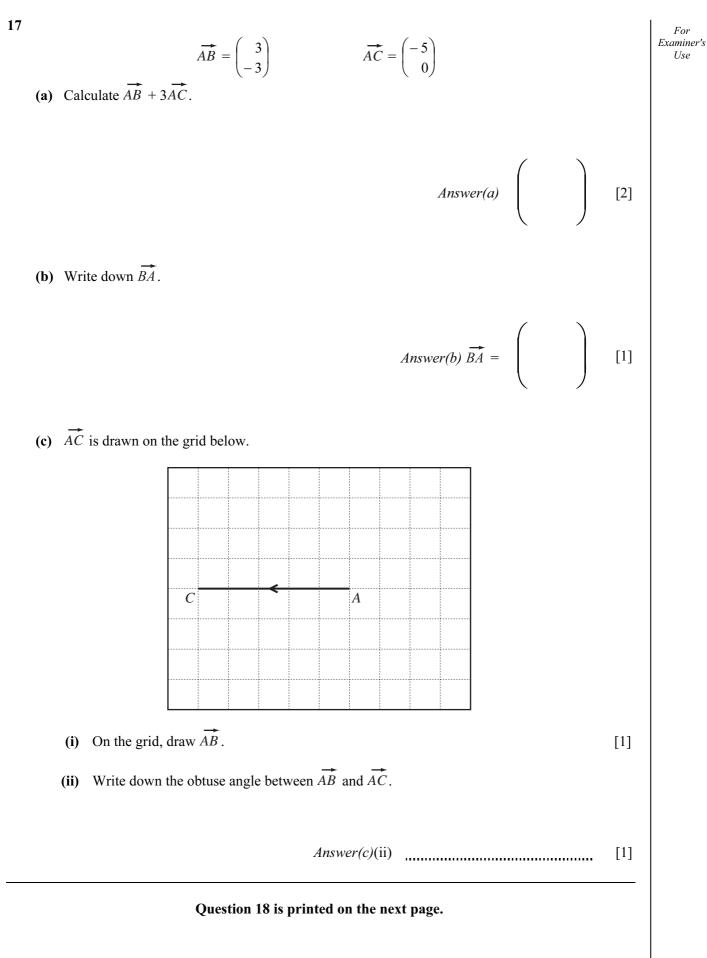
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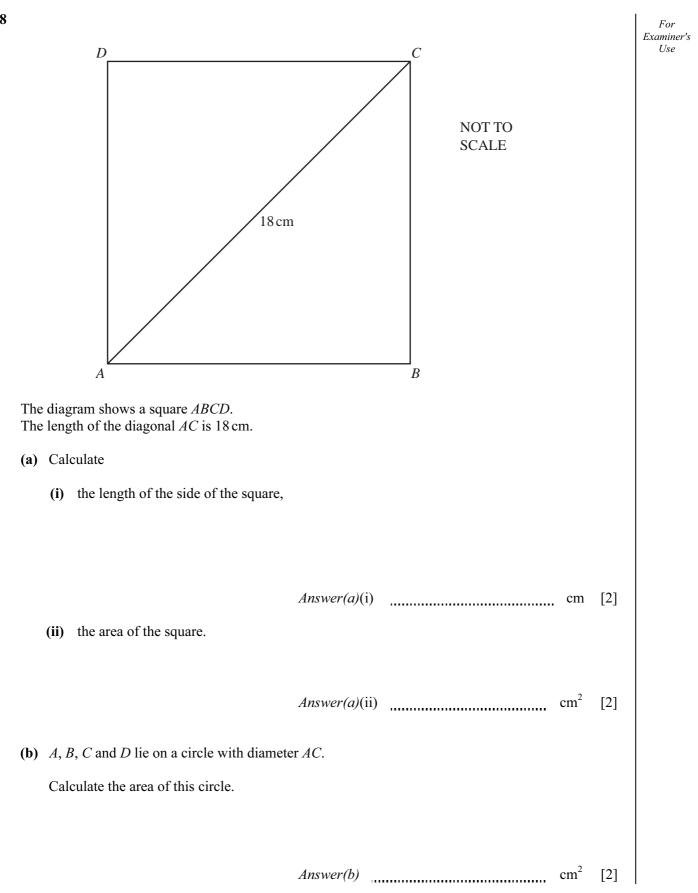
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