	UNIVERSITY OF CAMBRIDGE INTERN International General Certificate of Seco		MAN, Dana Cambrid
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
MATHEMATIC	S		0580/23
Paper 2 (Extended)		May/June 2011	
Candidates and	swer on the Question Paper.		1 hour 30 minutes
Additional Mate		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.

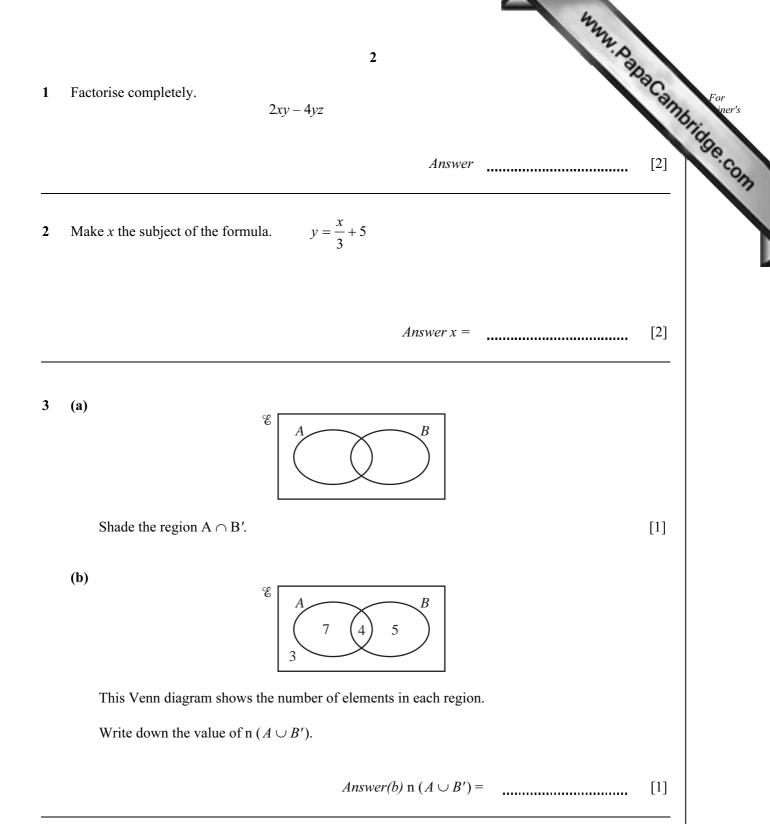
Electronic calculators should be used.

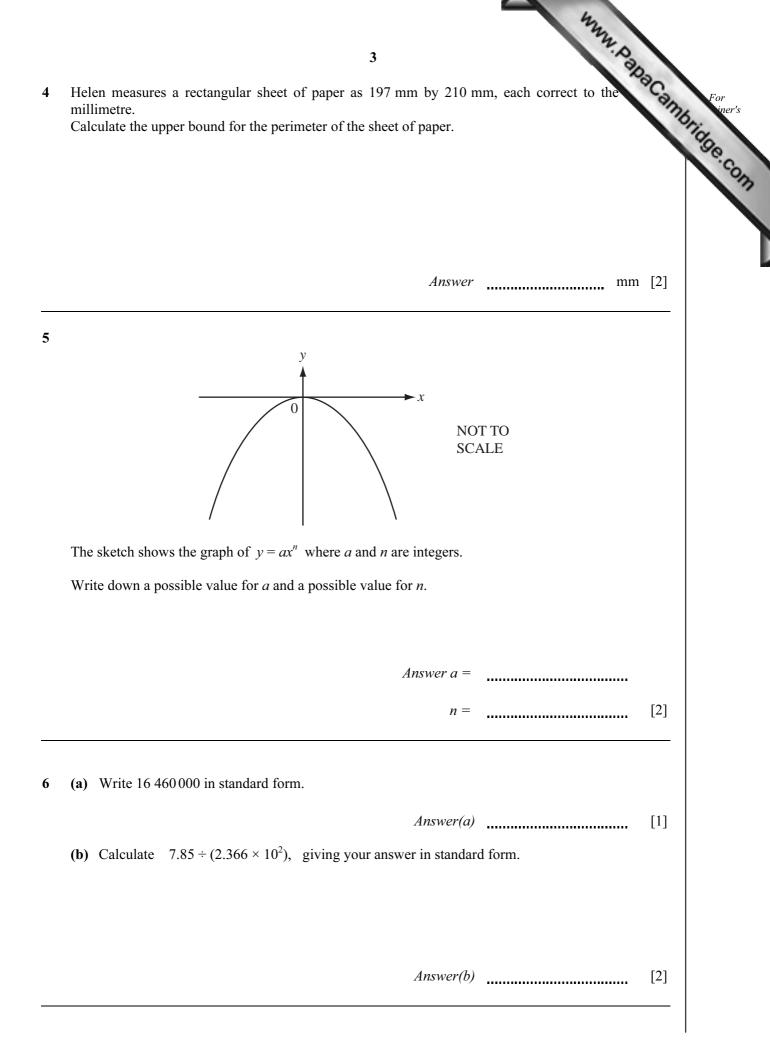
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place. For π , use either your calculator value or 3.142.

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.







4

 7 (a) Find the value of x when
$$\frac{18}{24} = \frac{27}{x}$$
.

 Answer(a) $x = \dots$

 (b) Show that $\frac{2}{3} + 1\frac{1}{6} = \frac{4}{7}$.

 Write down all the steps in your working.

 Answer(b)

(2)
8 Solve the simultaneous equations.
$$\begin{aligned}
 x + 2y = 3 \\
 2x - 3y = 13
 \end{aligned}

 9 Solve the simultaneous equations.

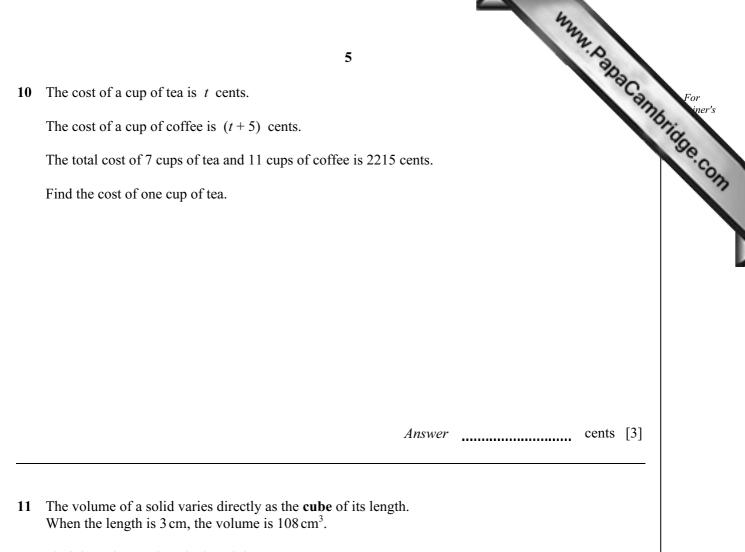
$$\begin{aligned}
 x + 2y = 3 \\
 2x - 3y = 13
 \end{aligned}

9 Answer $x = \dots$

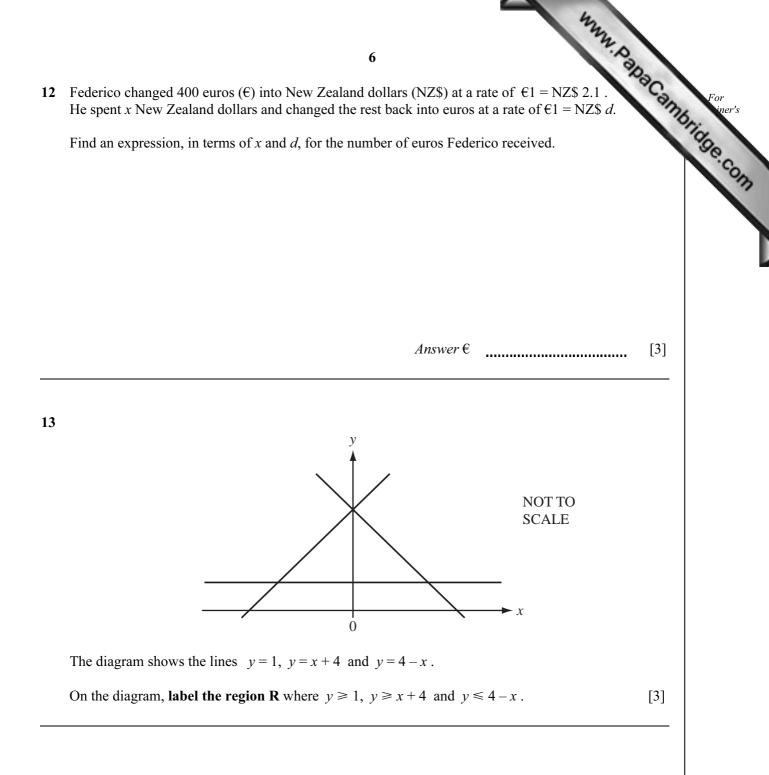
$$\begin{bmatrix} 3 \\ y = \dots \end{bmatrix}$$

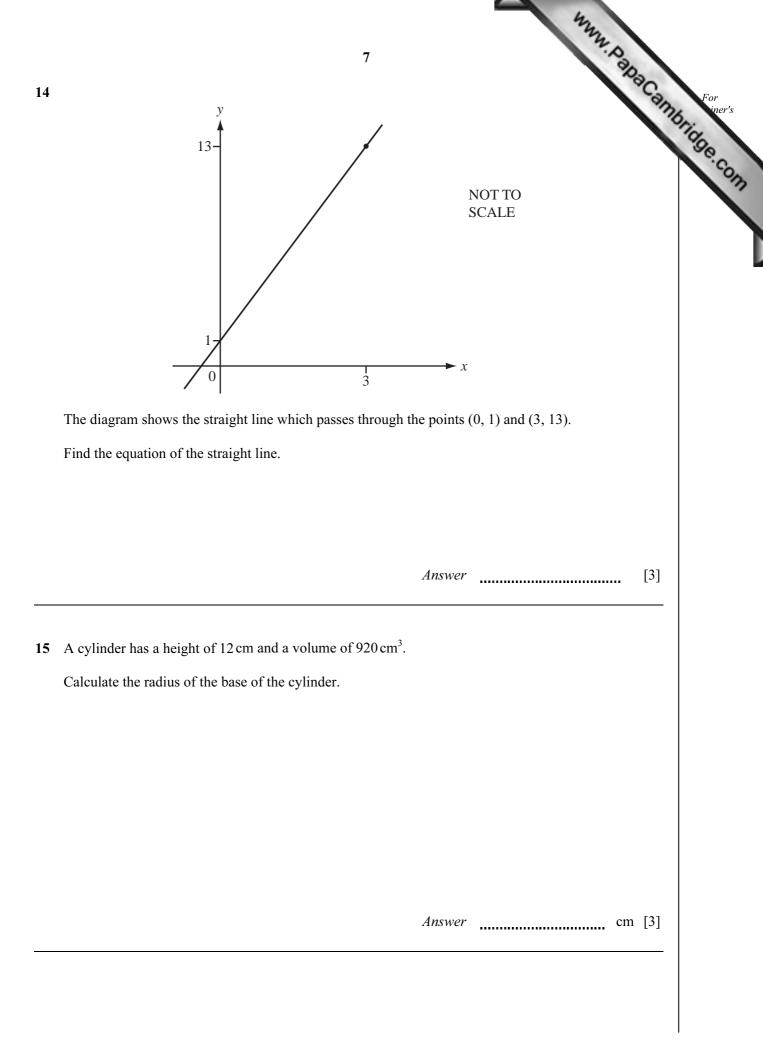
9 Example to total annual Eva has after 2 years. Give your answer correct to 2 decimal places.$$$$

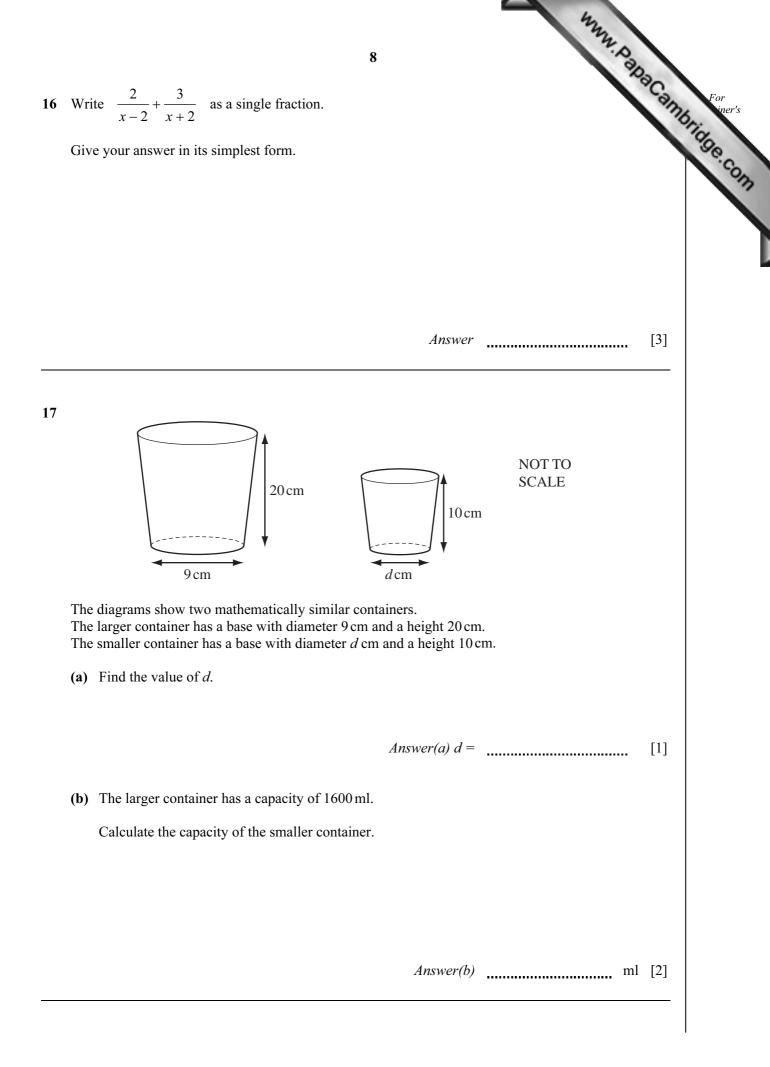
Answer \$ [3]

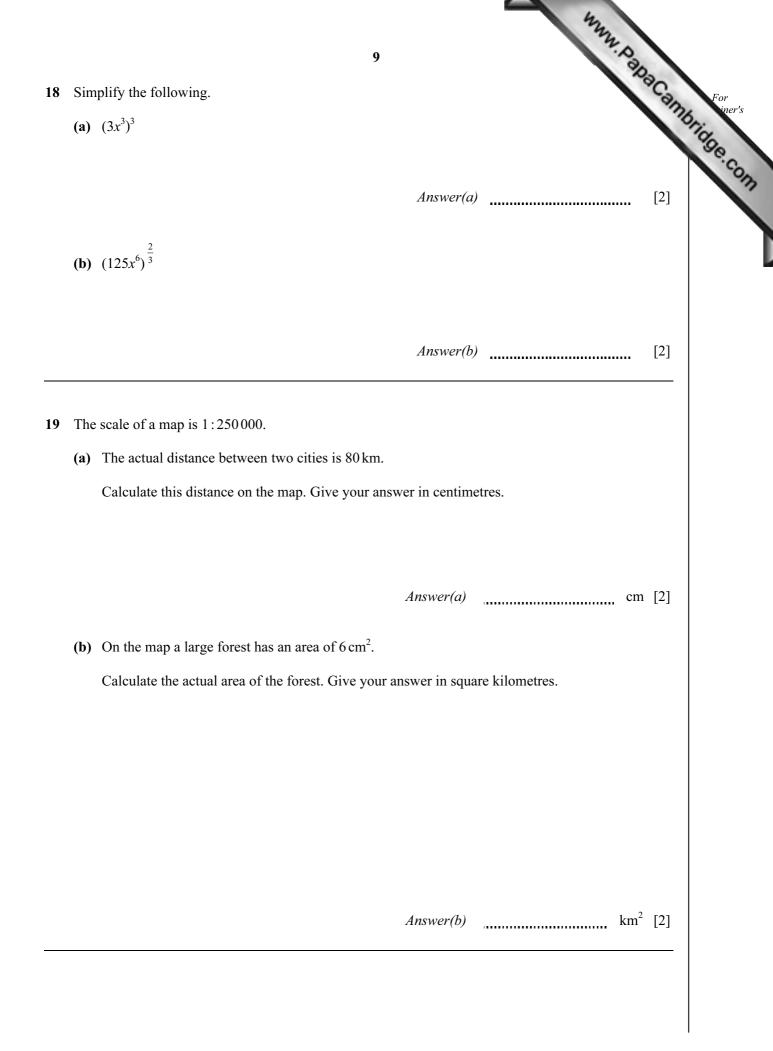


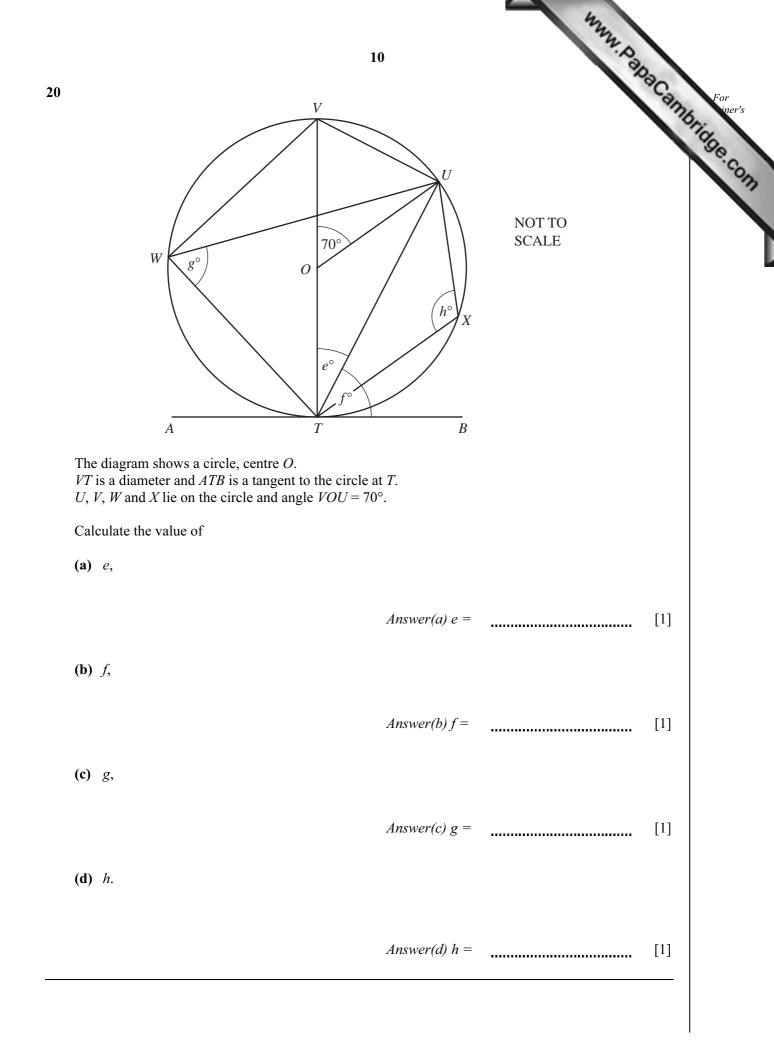
Find the volume when the length is 5 cm.

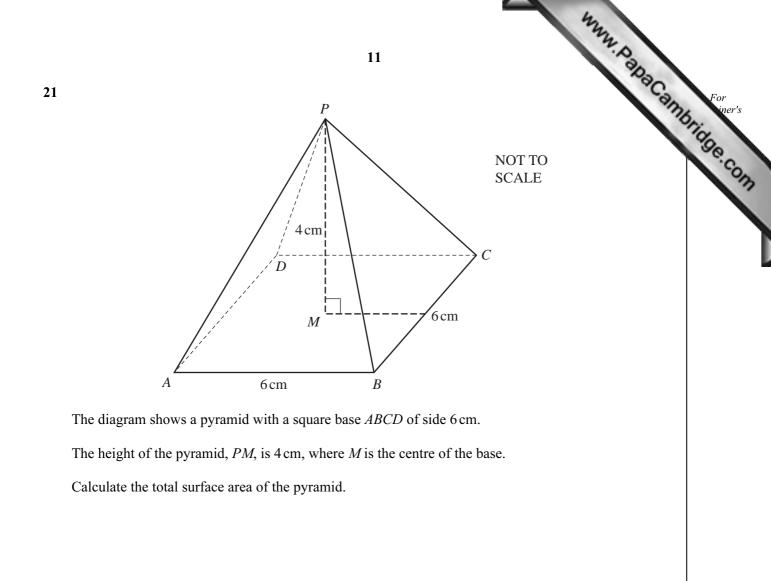






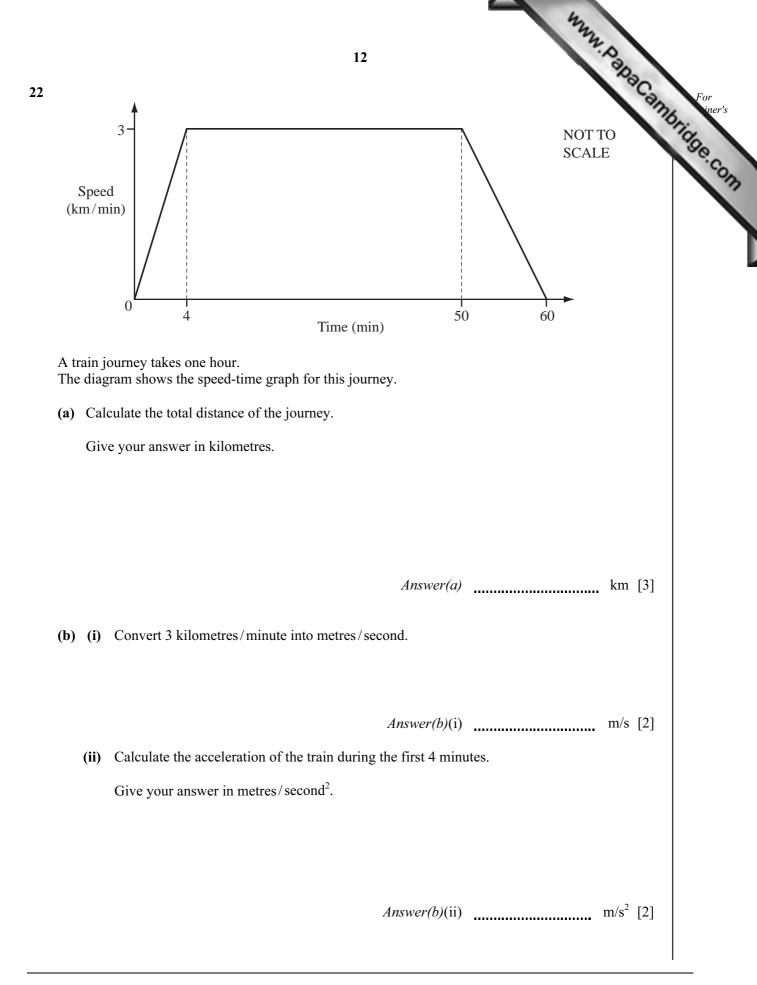






Answer cm^2 [5]

Question 22 is printed on the next page.



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