Candidate Number	Name A. Day
-	RNATIONAL EXAMINATIONS ertificate of Secondary Education
CS	0580/01 0581/01
	May/June 2003
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als: Electronic calcula Geometrical instr	ator ruments
Tracing paper (or	
	AMBRIDGE INTER national General Co CS ver on the Question Pap als: Electronic calcula Geometrical instr Mathematical tab

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen in the spaces provided on the Question Paper.

You may use a soft pencil for any diagrams or graphs.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

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

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.

Electronic calculators should be used.

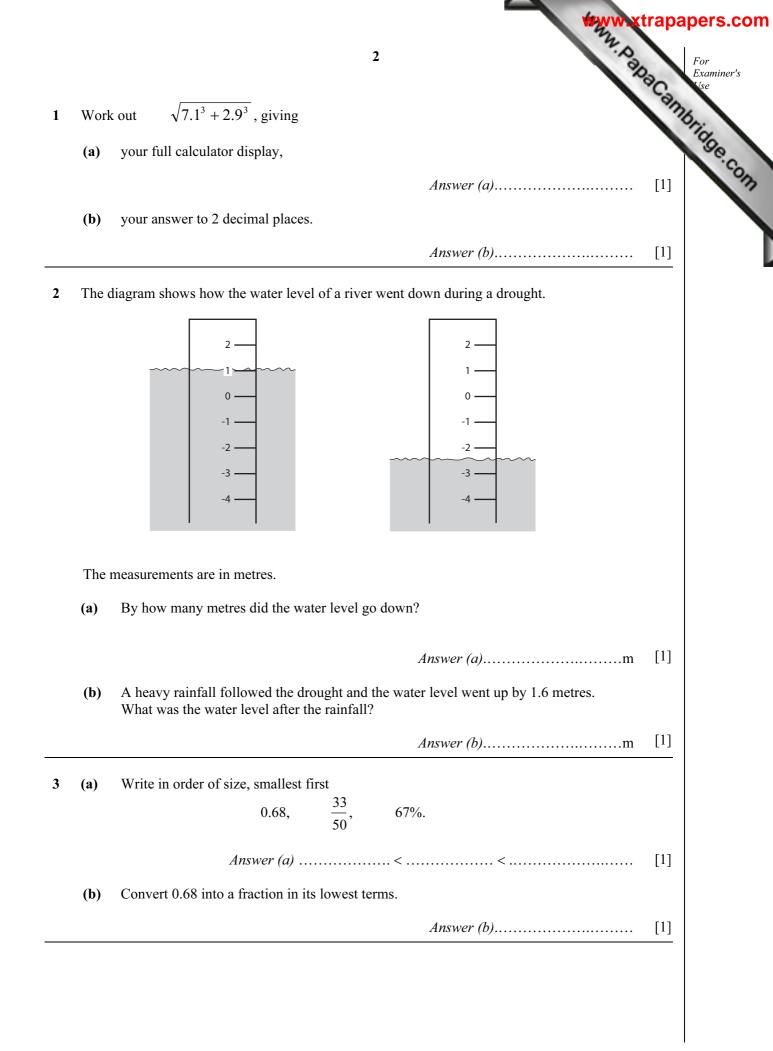
If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

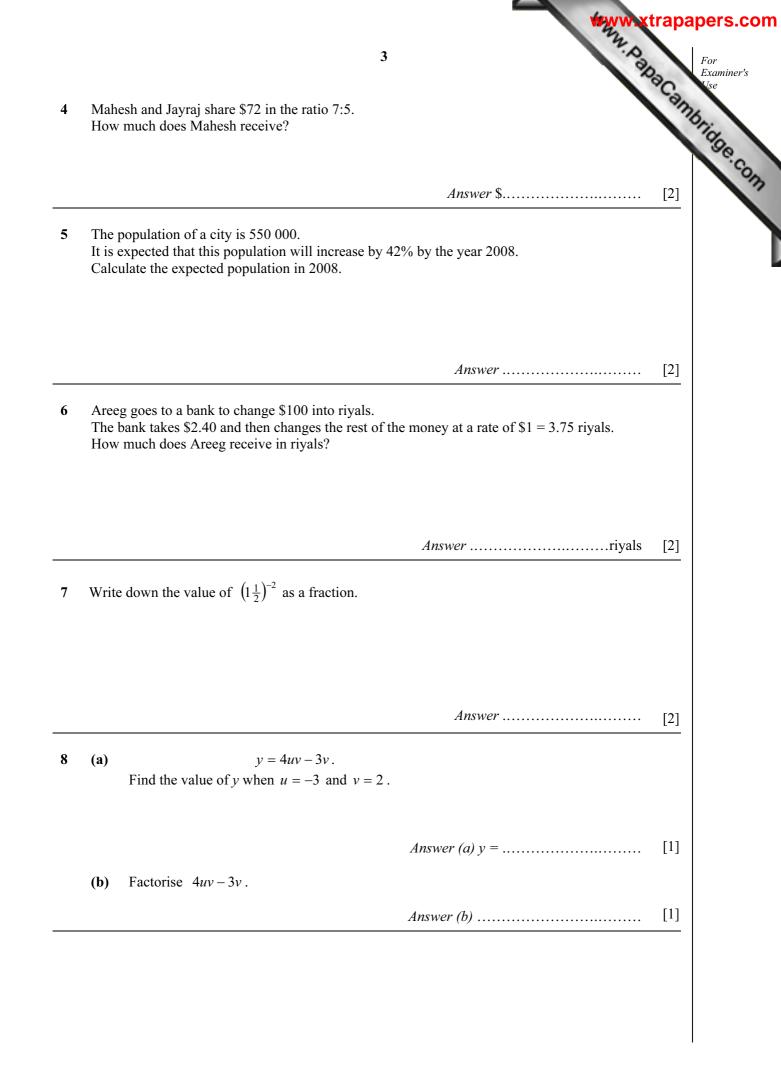
For π , use either your calculator value or 3.142.

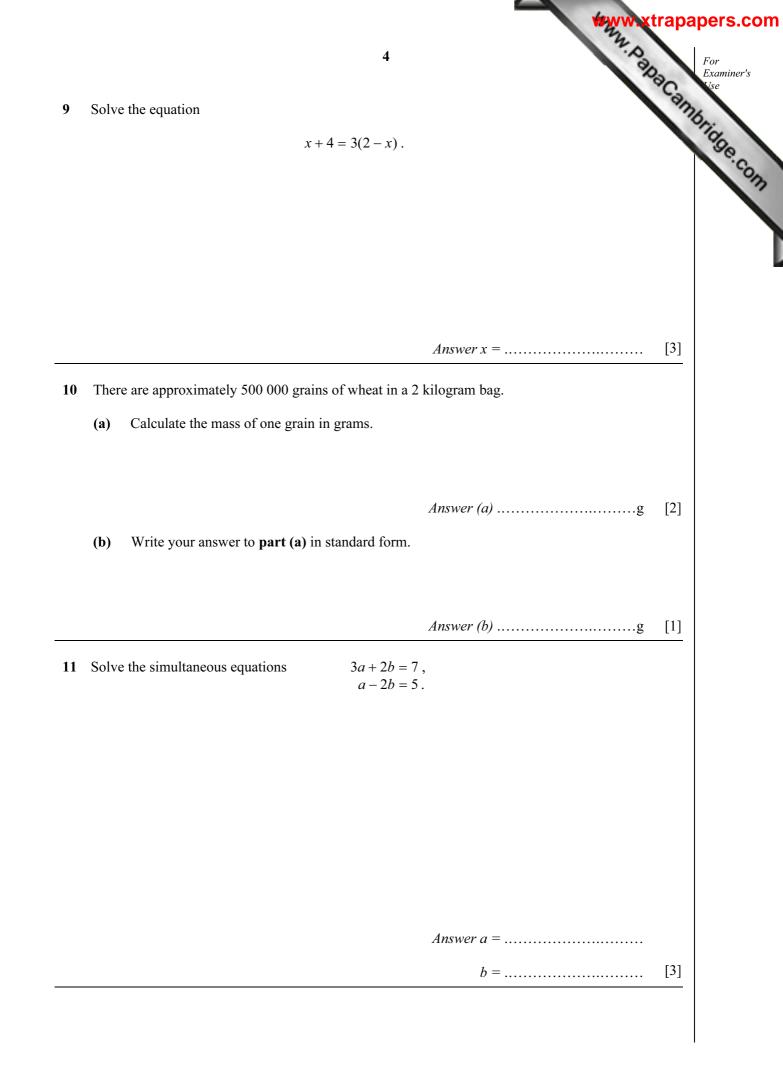
If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

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		YEAN WAS		
		5 diagram shows a pole of length <i>l</i> centimetres.		
2	The	The diagram shows a pole of length <i>l</i> centimetres.		
		< <i>l</i> cm►		
	(a)	Hassan says that $l = 88.2$. Round this to the nearest whole number.		
		<i>Answer</i> (<i>a</i>) $l =$	[1]	
	(b)	In fact the pole has a length 86 cm , to the nearest centimetre. Complete the statement about l .		
		Answer (b) $\ldots \leq l < \ldots$	[2]	
13	On a journey a bus takes 35 minutes to travel the first 10 kilometres. It then travels a further 20 kilometres in the next 40 minutes.			
	(a)	The bus started the journey at 18 50. At what time did it complete the journey?		
		Answer (a)	[1]	
	(b)	Calculate the average speed of the whole journey in		
		(i) kilometres/minute,		
		Answer (b)(i)km/min	[2]	
		(ii) kilometres/hour.		
		Answer (b)(ii)km/h	[1]	

14 Show **all your working** for the following calculations. The answers are given so it is only your working that will be given marks.

(a) $\frac{1}{2} + \frac{2}{3} = 1\frac{1}{6}$,

Answer (a)

(b) $1\frac{1}{5} \times 1\frac{3}{4} = 2\frac{1}{10}$.

Answer (b)

15 The diagram shows a square of side 8 cm and four congruent triangles of height 7 cm.

7 cm

8 cm

- (a) Calculate
 - (i) the area of one triangle,
 - (ii) the area of the whole shape.
- (b) The shape is the net of a solid.Write down the special name for this solid.

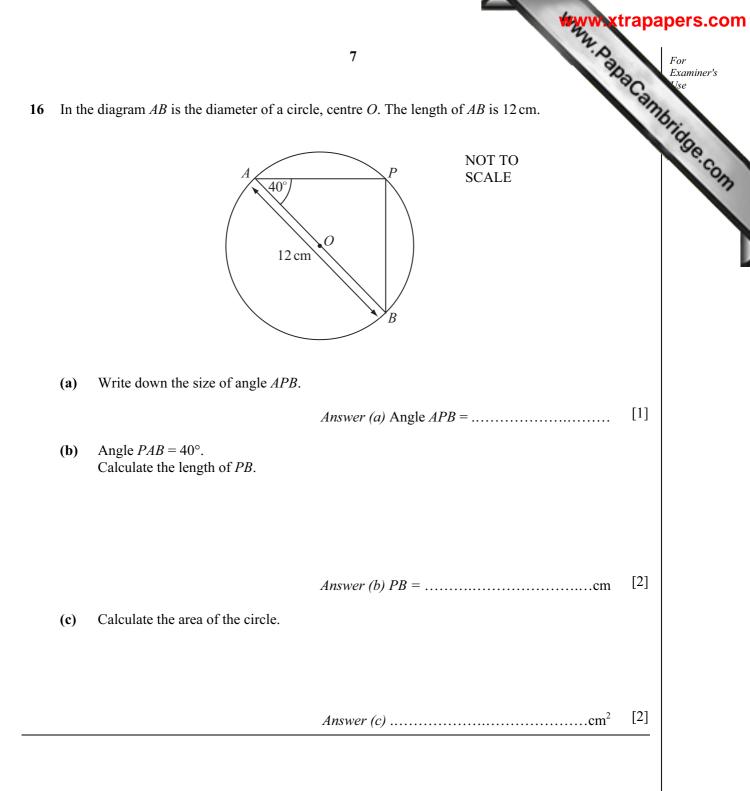
[2]

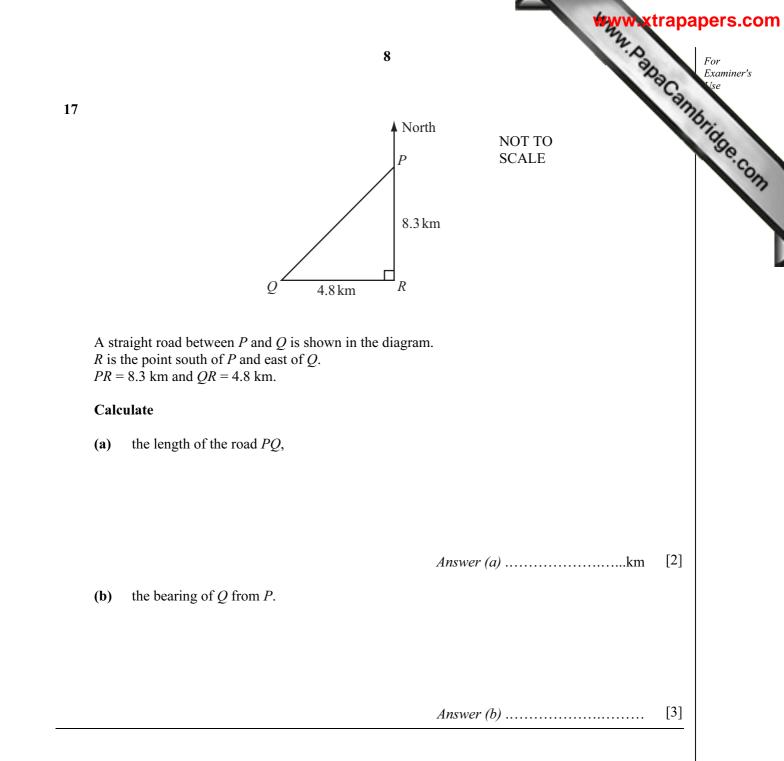
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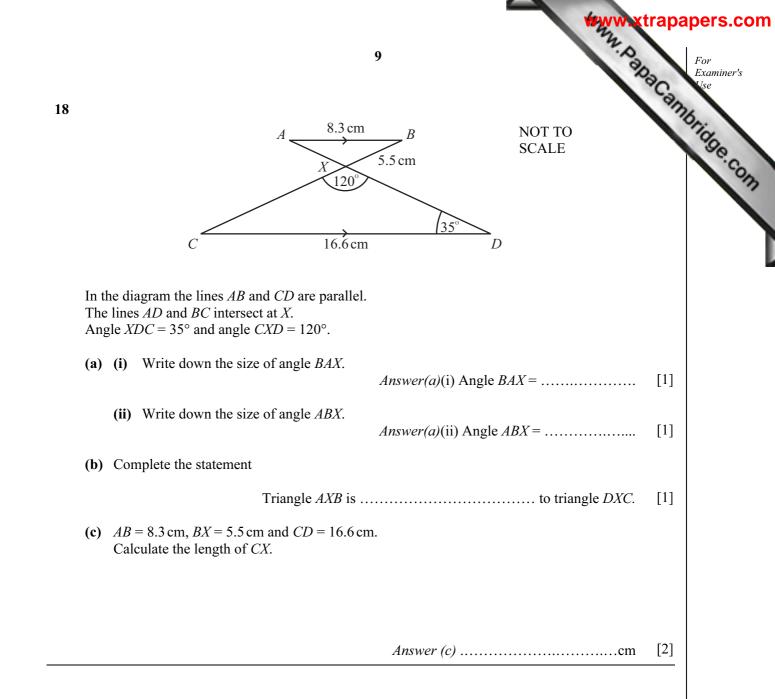
[2]

- *Answer (a)*(i)cm² [2]
- *Answer (b)* [1]

6









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