

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.

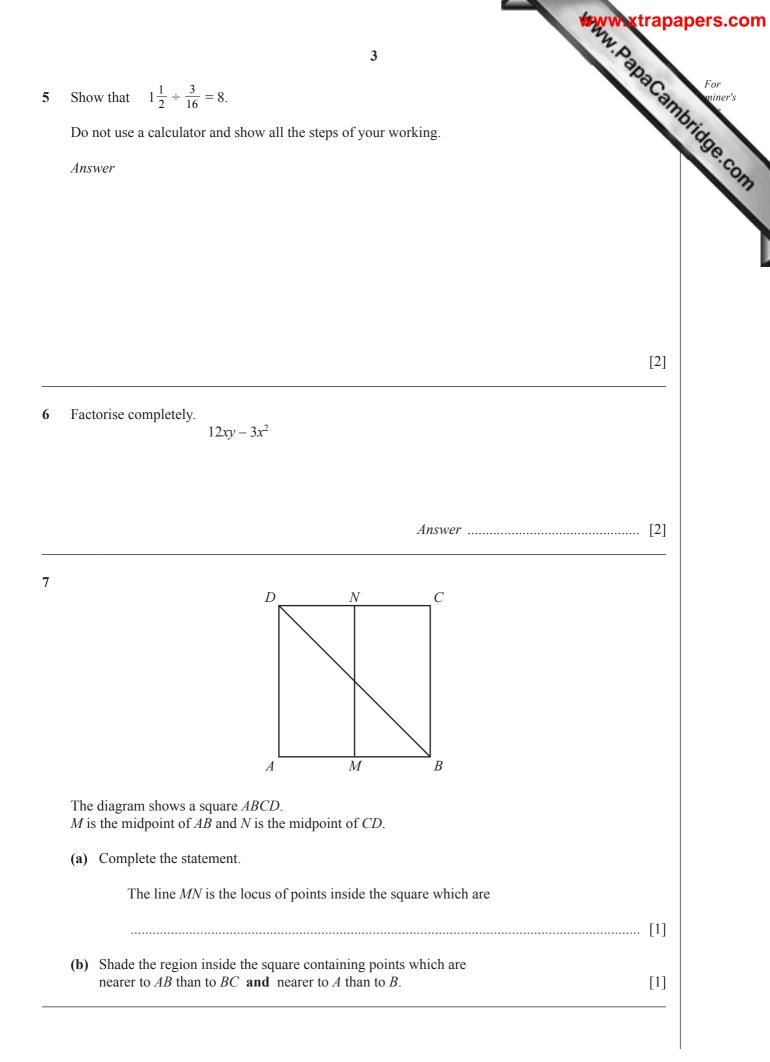
At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 70.

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



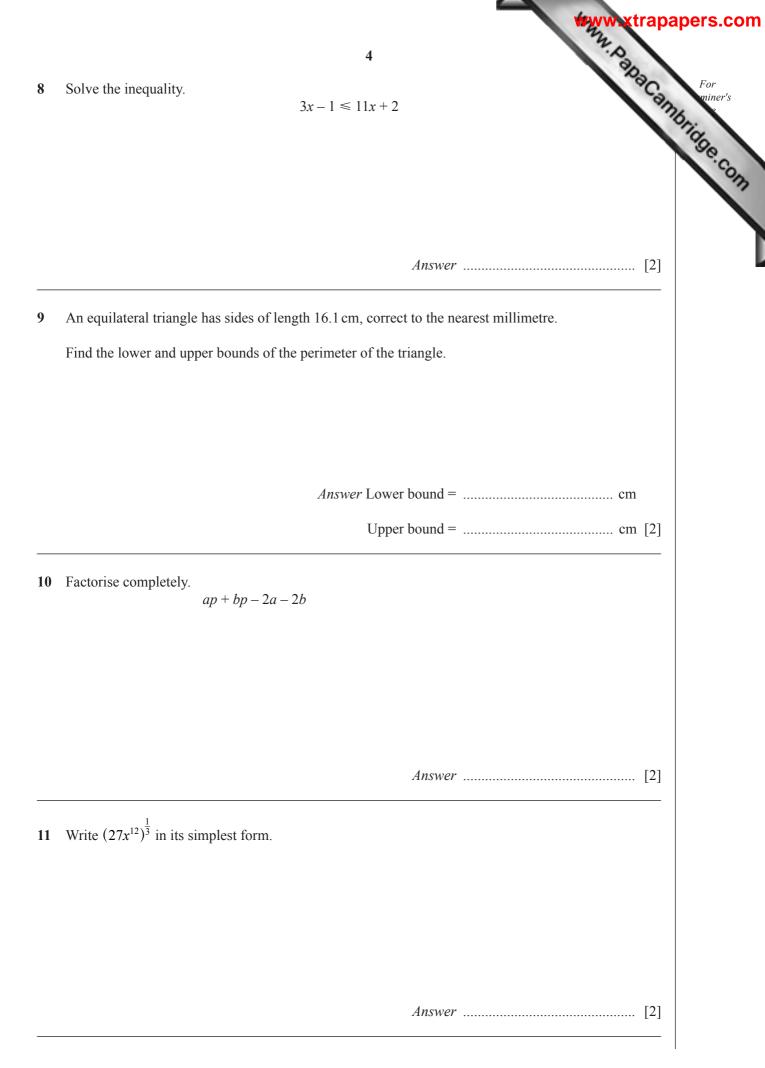


			ANA ANA	trap
	2 One January day in Munich, the temperature at noon w	vas 3°C.	Service Se	DaC.
	At midnight the temperature was -8° C.			3
	Write down the difference between these two temperat	ures.		
		Answer	°(C [1]
2	(a) Calculate $\sqrt{5.7} - 1.03^2$.			
	Write down all the numbers displayed on your cal	culator.		
		Answer(a)		. [1]
	(b) Write your answer to part (a) correct to 3 decimal	l places.		
		Answer(b)		. [1]
3	Pedro and Eva do their homework. Pedro takes 84 minutes to do his homework.			
	The ratio Pedro's time : Eva's time = $7: 6$.			
	Work out the number of minutes Eva takes to do her he	omework.		
		Answer	mi	n [2]
		Answer	mii	n [2]
		Answer	mii	n [2]
	50°	Answer		n [2]
	55°	Answer	NOT TO SCALE	n [2]
		Answer	NOT TO	n [2]
	550	Answer	NOT TO	n [2]
	550	Answer	NOT TO	n [2]
	550	~	NOT TO	n [2]
		~	NOT TO	n [2]
	Use the information in the diagram to find the value of	са.	NOT TO	

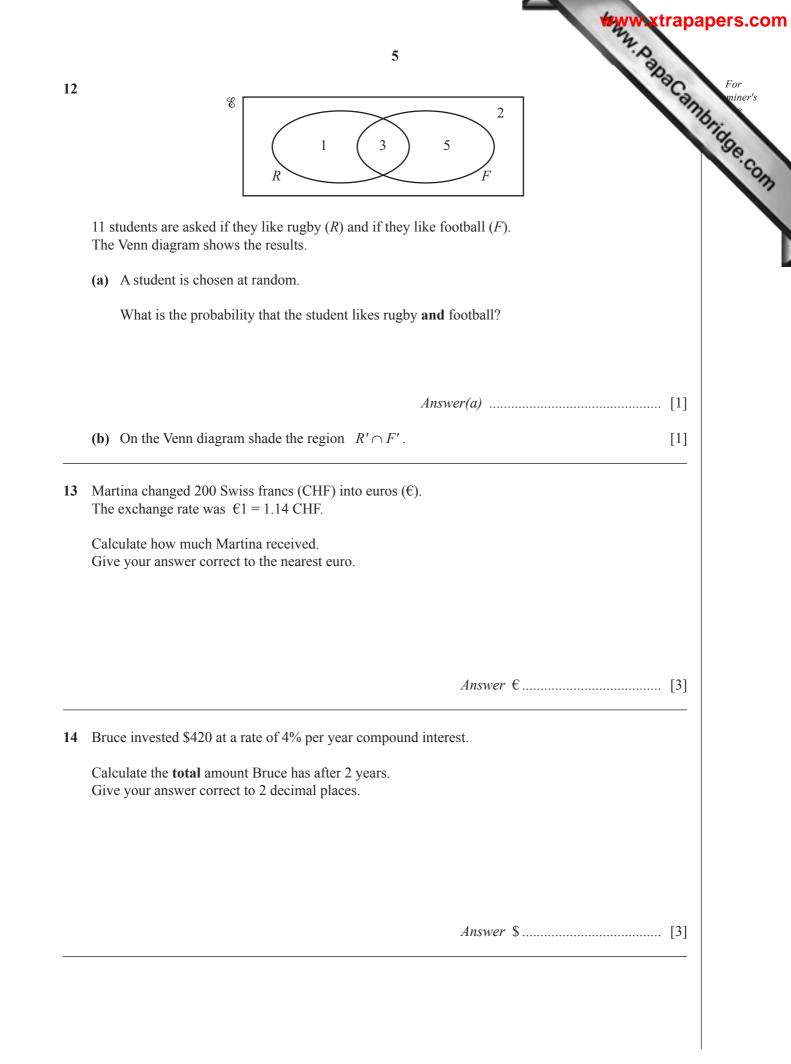


[Turn over

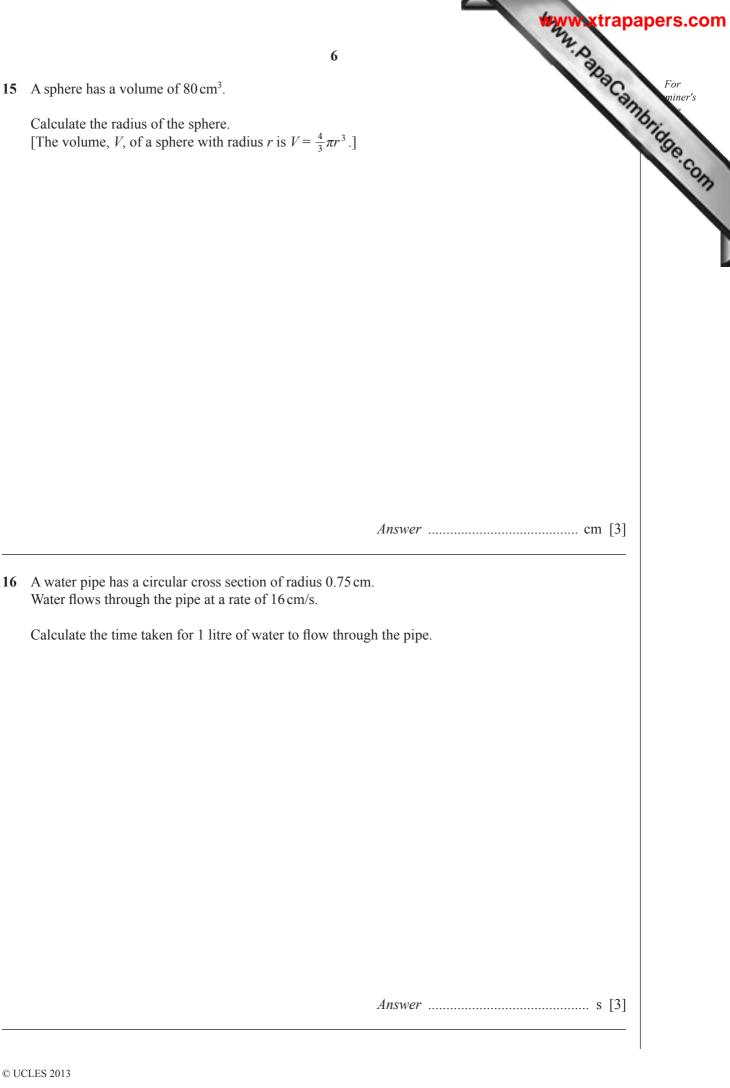
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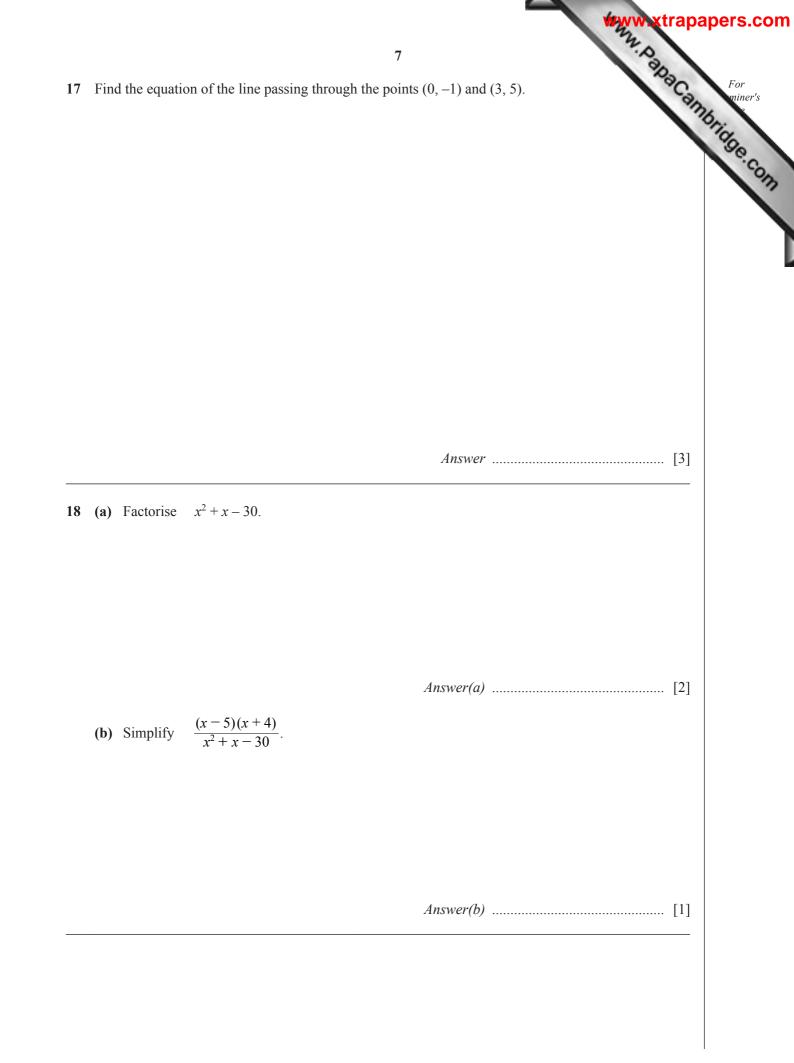




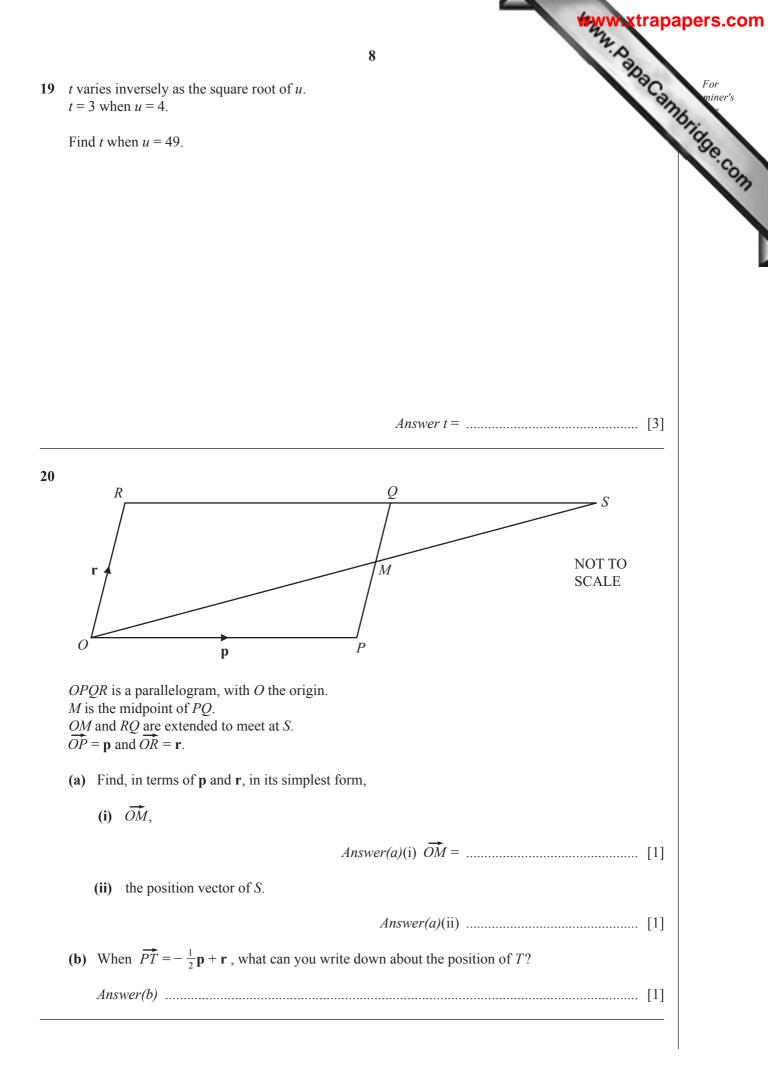
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15 A sphere has a volume of $80 \, \text{cm}^3$.

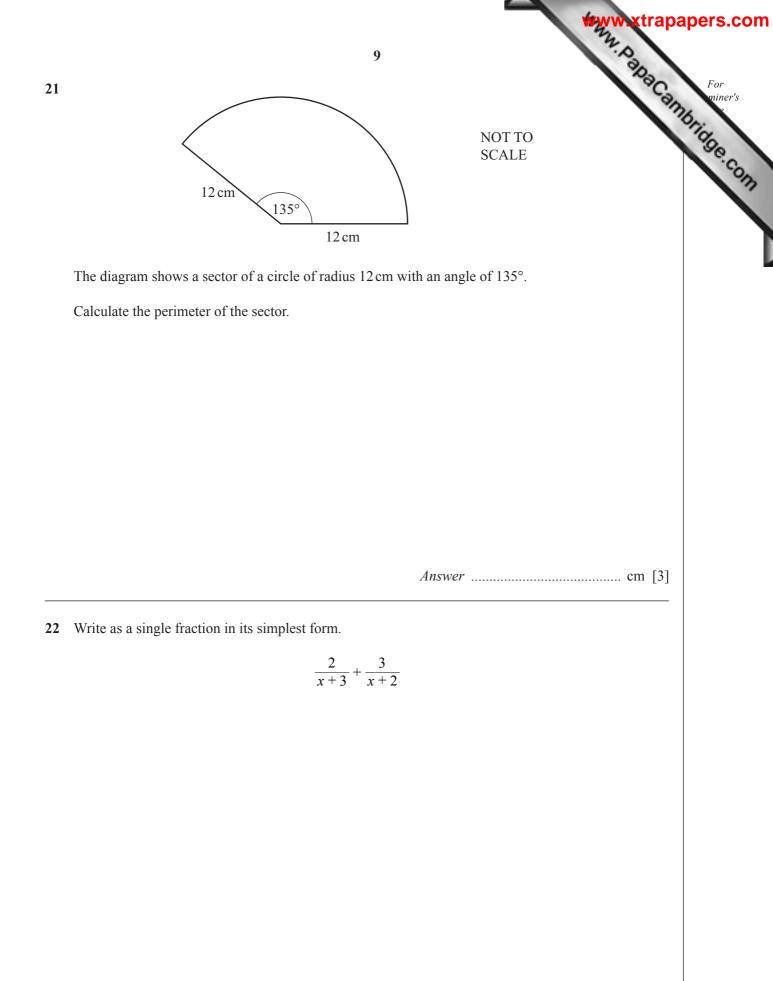
Calculate the radius of the sphere. [The volume, V, of a sphere with radius r is $V = \frac{4}{3}\pi r^3$.]



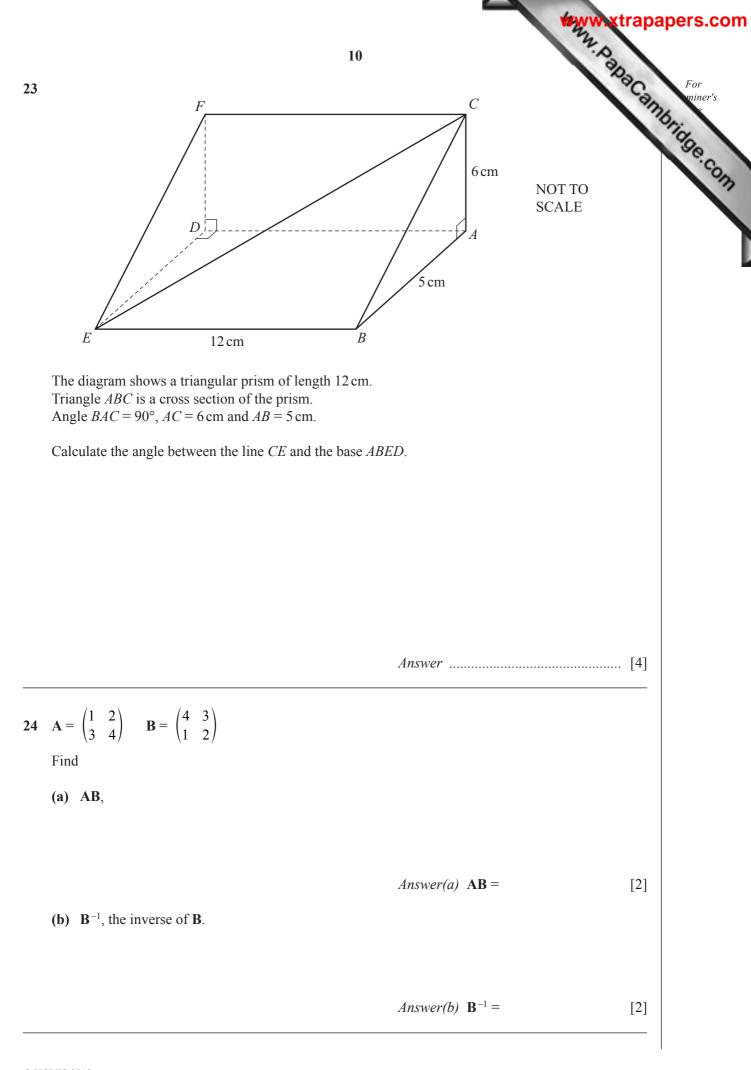




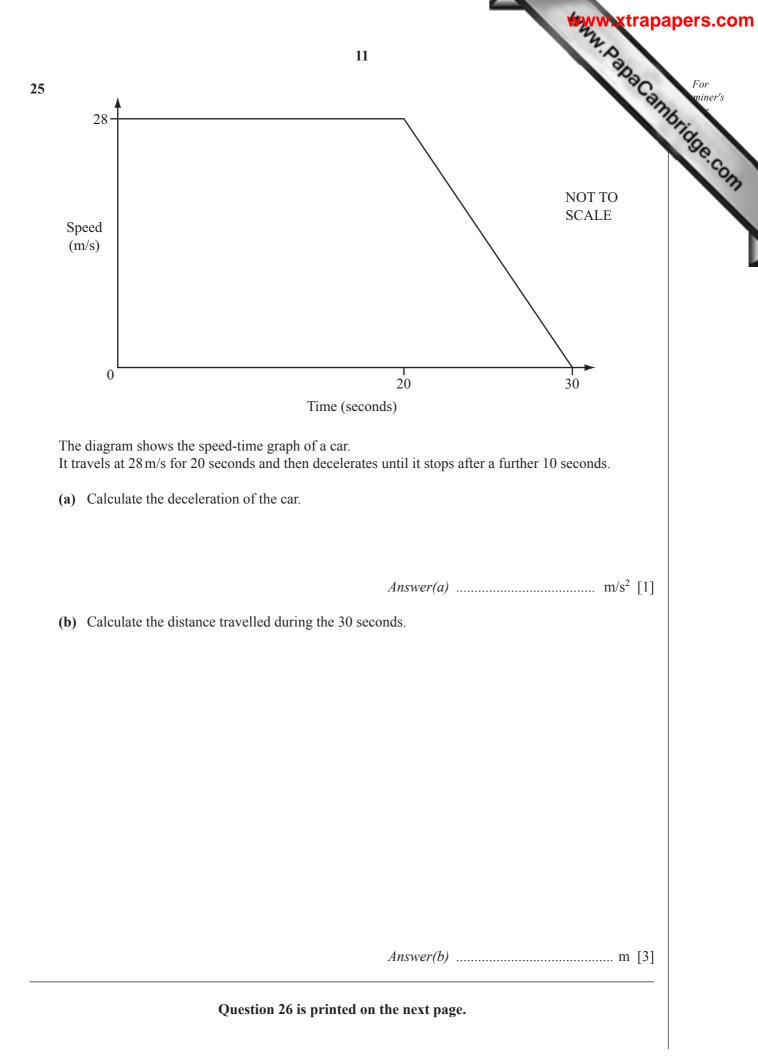
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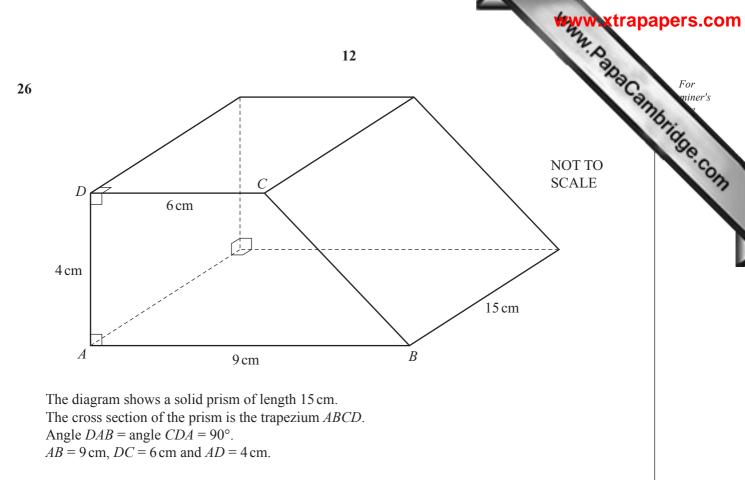


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Calculate the total surface area of the prism.

Answer $\dots cm^2$ [5]

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