

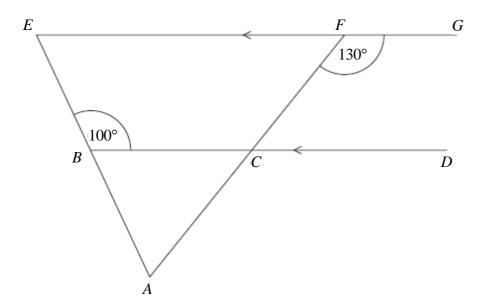


Name: ˌ	

BennettMaths Edexcel 3F – Part 3

	my wants to know how many sandwiches she will need for 550 people at a meeting.	
	ch person who eats sandwiches will eat 3 sandwiches.	
	lices of bread are needed for each sandwich.	
Jen	ny assumes 76% of the people will eat sandwiches.	
(a)	Using this assumption, work out the number of slices of bread Jenny needs. Give your answer correct to the nearest hundred slices.	
		. sli
	ny's assumption is wrong.	
	% of the people will eat sandwiches.	
(b)	How does this affect your answer to part (a)?	
		•••••
		•••••
		•••••

22 ACF and ABE are straight lines. EFG and BCD are parallel lines.



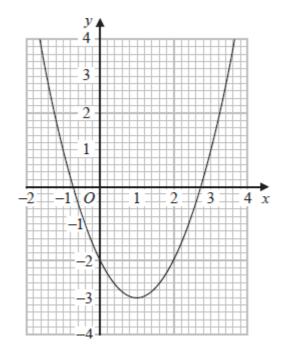
Show that triangle *ABC* is isosceles. Give a reason for each stage of your working.

It takes 24 hours for 9 identical pumps to fill a swimming pool.
How many hours would it take 15 of these pumps to fill another swimming pool of the same size?
hours
(Total for Question 23 is 2 marks)

	$P = 2^3 \times 3^5 \times 5$ $Q = 3^2 \times 5^3$			
	highest common	factor (HCF) of	P and Q .	
(b) Find the	lowest common	multiple (LCM)	of P and Q .	

(Total for Question 24 is 3 marks)

25	Sludge leaks from a pipe at a constant rate of 8.7 m ³ /s
	How many hours does it take for 98 310 m ³ of sludge to leak from the pipe? Give your answer correct to the nearest hour.
	hours
	(Total for Question 25 is 3 marks)



(a) Write down the coordinates of the turning point on the graph of $y = x^2 - 2x - 2$

(.....) (1)

(b) Write down an estimate for one of the roots of $x^2 - 2x - 2 = -2$

(1)

(Total for Question 26 is 2 marks)

A s	olid cube is	made of stone.			
		a density of 3.5 g/cm ³ the cube is 216 cm ³			
Wo	rk out the n	nass of the cube.			
					១
				(Total for Question 27 is	
(a)	Write (2.5	$\times 10^{3}$) · (7.5 × 10 ⁴) in	the form $1 \cdot n$ when	re n is an integer	
(a)	Write (2.5	$\times 10^{3}$): (7.5 $\times 10^{4}$) in	the form $1:n$ whe	re <i>n</i> is an integer.	
(a)	Write (2.5	$\times 10^{3}$): (7.5 $\times 10^{4}$) in	the form $1:n$ whe	re <i>n</i> is an integer.	(2)
	Write the	\times 10 ³) : (7.5 \times 10 ⁴) in Following numbers in the smallest number.		re <i>n</i> is an integer.	(2)
	Write the	following numbers in		re n is an integer. 0.006 125 ×10 ³	(2)
	Write the t	Following numbers in the smallest number.	order of size.		(2)
	Write the t	Following numbers in the smallest number.	order of size.		(2)
	Write the t	Following numbers in the smallest number.	order of size.		(2)