



Name:	

BennettMaths Edexcel 2H - Part 1

1	(a)	Work out the value of	$\frac{\sqrt{1577} - 32}{2.3^2 - 5}$	
		Write down all the figu	res on your calculator display.	
				(2)
	(<i>b</i>)	Work out the value of t	the reciprocal of 0.8	
				(1)

(Total for Question 1 is 3 marks)

Write 84 as a product of its prime factors.
(Total for Question 2 is 2 m
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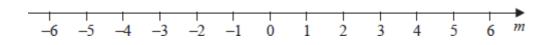
4 $-3 < n \le 7$

n is an integer.

(a) Write down the greatest possible value of n.

(1)

(b) On the number line below, show the inequality $-5 < m \le 2$



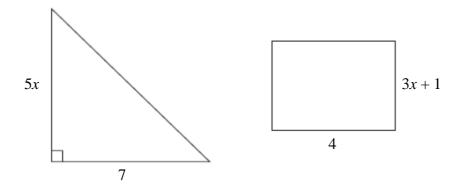
(2)

(c) Solve $\frac{4}{5}h - 6 < 10$

(3)

(Total for Question 4 is 6 marks)

5 Here is a triangle and a rectangle.



All measurements are in centimetres.

The area of the triangle is 18 cm² greater than the area of the rectangle.

Work out the value of *x*.

<i>x</i> =

Last month a farmer sold 900 kg of vegetables. 65% of these vegetables were turnips and parsnips.	
weight of turnips : weight of	parsnips = 9:4
Calculate the weight of parsnips the farmer sold.	
	kg
	(Total for Question 6 is 3 marks)

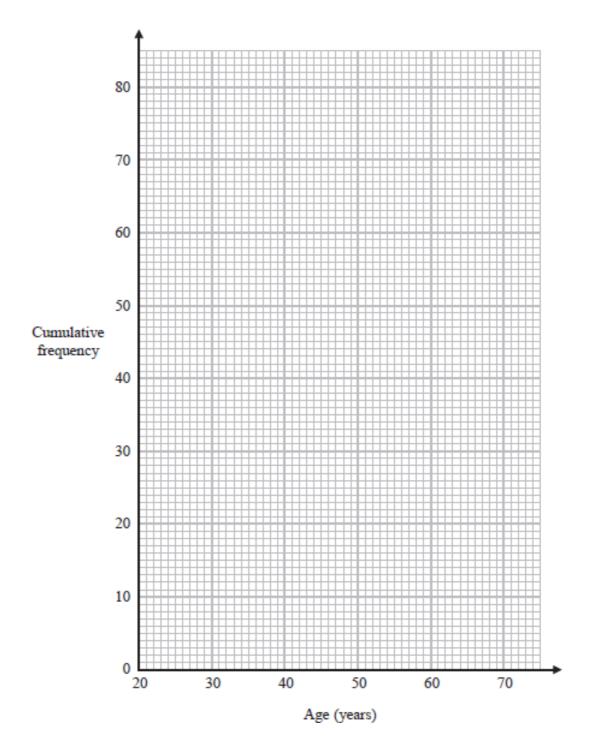
A number, <i>d</i> , is rounded to 2 decimal places. The result is 2.73				
Complete the error interval for d .				
	≤ d <			
-	(Total for Question 7 is 2 m			
Ronnie buys a house with a value of £280 000 The value of Ronnie's house increases by 2.5% each year.				
Tom buys a house with a value of £260 000 The value of Tom's house increases by 6% each year.				
At the end of 2 years, whose house has the greater value? You must show how you get your answer.				
2 car mass site in 110 in your geo your answer.				

9 The cumulative frequency table gives information about the ages of 78 people going on a cruise.

Age (a years)	Cumulative frequency
$20 < a \le 30$	18
$20 < a \le 40$	36
$20 < a \le 50$	57
$20 < a \le 60$	72
$20 < a \le 70$	78

- (a) On the grid on the next page, draw a cumulative frequency graph for this information. (2)
- (b) Use your graph to find an estimate for the median age.

..... years (1)



(Total for Question 9 is 3 marks)