Br Qı	gher Interlea anch 13 uizzes 1 to 3	vin	g	\ \ \	Zu Z	Home Study Focus
	Topic	T -	R	A	G	Home Study Focus
		Σ	"	_		
1	Standard Form	-	-			
3	Factorise and solve Transformation					
4	Cumulative Frequency	1				Home Study
	Camalative Frequency	1				Completed
Q	uiz 2	Σ	R	А	G	Home Study Focus
1	Reverse Percentage Problem					
2	Forming an Equation					
3	Right Angled Trigonometry					Home Study
4	Histogram					Completed
Q	uiz 3]	I		Home Study Focus
Q	Topic	Σ	R	Α	G	
1	Ratio Problem					
2	Iteration					
3	PAV Problem					Home Study
4	Frequency Tree					Completed
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Higher Interleaving Quiz

Branch 13 Quiz 1

(3 marks)

(1 mark)



1) $(7 \times 10^a) + (7 \times 10^b) + (7 \times 10^c) = 707.07$ Write down a possible set of values for a, b and c.

a =	b =	c =

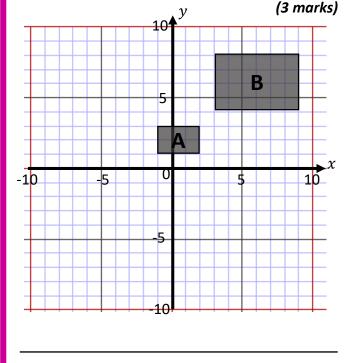
2) a) Factorise $9x^2 - 36$

Answer:

b) Factorise and solve $x^2 - 13x + 12 = 0$ (3 marks)

3) Describe the transformation from A to B.

Answer:

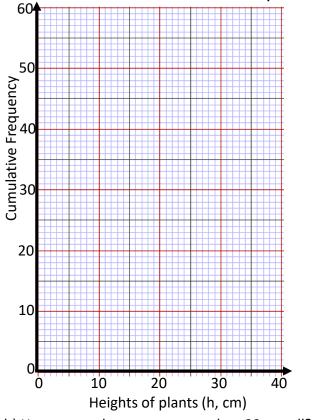


4) The heights of 50 plants were recorded by a gardener. The results are shown in the table.

Height (h) in cm	Frequency	
$0 < h \le 15$	12	
$15 < h \le 25$	13	
$25 < h \le 30$	17	
$30 < h \le 40$	8	

a) On the grid, draw a cumulative frequency graph to represent the information.

(3 marks)



b) How many plants were more than 32cm tall? (2 marks)

Answer:

11111	Q	Topic	Σ	R	Α	G
1	1	Standard Form				
1111	2	Factorise and solve				
1	3	Transformation				
111	4	Cumulative Frequency				

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Higher Interleaving Quiz

Branch 13 Quiz 2



(3 marks)

1) In a sale, normal prices are reduced by $\frac{1}{5}$.

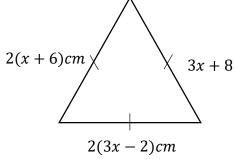
The normal price of a cornet is reduced by £150. Work out the normal price of the cornet. (3 marks)

cornet.	(3 marks

Answer: ____

2) Here is an equilateral triangle.

(4 marks)

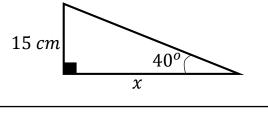


What is the perimeter?

_				

Answer:

3) Work out the value of x. (2 marks) Give your answer to 1 decimal place.

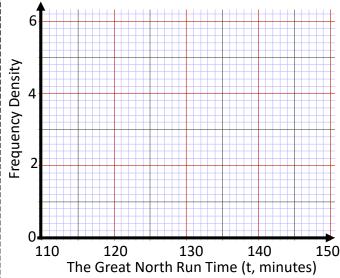


Answer:

4) Anna carried out a survey of the London Half Marathon times of 80 runners.

time (t) in mins	Frequency	
$110 < t \le 120$	7	
$120 < t \le 130$	26	
$130 < t \le 145$	30	
$145 < t \le 150$	17	

a) On the grid, draw a histogram for the information in the table.



b) A reporter states that a half of the runners took over 140 minutes to complete the Great North Run. Does Anna's Survey support the statement?

Yes	No	(3 marks)
		_

Q	Торіс	Σ	R	Α	G
1	Reverse Percentage Problem				
2	Forming an Equation				
3	Right Angled Trigonometry				
4	Histogram				
	• •				

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Higher Interleaving Quiz

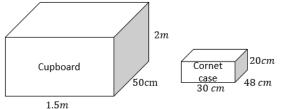
Branch 13 Quiz 3



Red paint costs £2.80 per litre.
 Blue paint costs £3.10 per litre
 Red and blue paint are mixed together in the ratio of 5:2 to make purple paint.
 Work out the cost of 35 litres of purple paint.

(4 marks)

the cupboard?	(3 marks
in a cupboard. How many cornet case	es fit into
3) A band are trying to store a new se	et of cornets



Answer: _____

2) An approximate solution to an equation is found using this iterative process.

$$x_{n+1} = \frac{x_n^3 - 3}{5}$$
 and $x_1 = -1$

Work out the solution to 3 decimal places.

Answer:

(3 marks)

A	
DUCMEL	
Answer:	

4) 40 passengers were on a band bus.

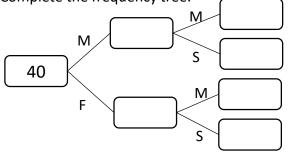
20 people were male.

Male musicians to Supporters were in the ratio of 4:1

28 musicians in total

(3 marks)

a) Complete the frequency tree.



b) What proportion of the passengers (1 marks) were female musicians?

Answer:

Q	Торіс	Σ	R	Α	G	
1	Ratio Problem					
2	Iteration					
3	PAV Problem					
4	Frequency Tree					

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