Br Qı	gher Interlead ranch 12 uizzes 1 to 3	vir	ıg	\ \ \	Zu Z	
	uiz 1	T_			П	Home Study Focus
Q	Topic	Σ	R	Α	G	
1	Product of Prime Factors				Ц	
2	Factorise and Solve				Щ	
3	Circle Theorems				Ш	Home Study
4	Probability Tree					Completed
Q 1 2 3 4	Topic Percentage Problem Simultaneous Equations Surface Area Problem Averages from a Table	Σ	R	A	G	Home Study Completed
Q	uiz 3					Home Study Focus
Q	Торіс	Σ	R	А	G	
1	Ratio Problem				П	
2	Expand and Simplify				П	
3	Right Angled Trigonometry				П	Home Study
4	Cumulative Frequency					Completed
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Higher Interleaving Quiz

Branch 12 Quiz 1



1)	Express 504 as a product of prime factors in
	index form.

3) Find the size of angle DCA. Give a reason for your answer.

(3 marks)

(3 marks)	
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2)

a) Factorise Fully $18x^2y + 12y^2$

(2 marks)

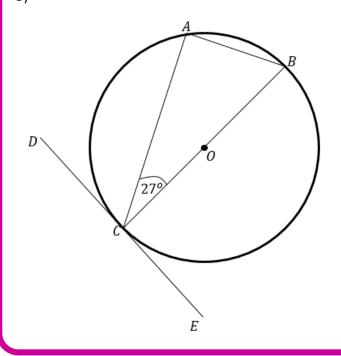
Answer:

b) Solve
$$x^2 + 2x - 35 = 0$$

(3 marks)

Answer: _____

3)



4) There are 8 biscuits in a tin. 5 digestives and 3 ginger nuts. Mrs D picks out and eats two biscuits at random from the tin. Calculate the probability of selecting two different biscuits. (4 marks)

Answer:

Answer: _____

Q	Topic	Σ	R	Α	G
1	Product of Prime Factors				
2	Factorise and Solve				
3	Circle Theorems				
4	Probability Tree				
	·				

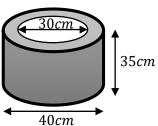
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Higher Interleaving Quiz Branch 12 Quiz 2



In 2010 there were 20 million computer tablets shipped around the world.
 In 2017 there were 163 million computer tablets shipped around the world.
 Calculate the percentage increase. (3 marks)

(5 marks	;)
of the tube which needs to be painted.	
rust protection. Calculate the surface area	
3) A fron tube needs to be painted with	



2) Mrs Quinn buys 30 bags of flour for food tech. There are x bags that weigh 1.5kg each. There are y bags that weigh 2kg each.

a) Write down an equation connecting \boldsymbol{x} and \boldsymbol{y} .

(1 mark)

Α	ns	W	er	:

b) The total weight of the bags is 54kg Use algebra to work out the values of x and y. You must show your working out. (3 marks)

x =	 y =	

Answer:	

4) There are 300 runners in the Edinburgh marathon. (3 marks)

Time (t) in mins	Frequency
$180 < t \le 200$	20
$200 < t \le 260$	100
$260 < t \le 300$	180
t > 300	0

Estimate the mean time

Answer:

Q	Topic	\sum	R	A	G
1	Percentage Problem				
2	Simultaneous Equations				
3	Surface Area Problem				
4	Averages from a Table				

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Higher Interleaving Quiz

Branch 12 Quiz 3



(3 marks)

1) Adam, Jake and Sally share sweets in the ratio of 3: 5: 7 Adam has 104 less sweets than Sally. How many sweets does Jake have?

(3 marks)

4 The times that 60 customers waited in a drive-thru are given in the frequency table.

Time (t) in mins	Frequency					
$0 < t \le 2$	3					
$2 < t \le 4$	12					
4 < t ≤ 6	25					
$6 < t \le 10$	14					
$10 < t \le 16$	6					
a) Draw a cumulative frequency graph to						

Answer:

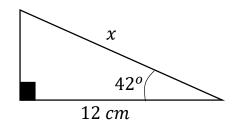
2) Expand and Simplify

 $(x+1)(x+2)^2$ (4 marks)

3) Workout the length of x

Answer:

(2 marks)



represent this information. 804 Cumulative Frequency
0 0 0 0

b) Use your graph to find an estimate for the (3 marks) interquartile range.

Time in drive-thru (minutes)

Answer:

	Q	Topic	Σ	R	Α	G		
	1	Ratio Problem						
	2	Expand and Simplify						
	3	Right Angled Trigonometry						
	4	Cumulative Frequency						
1								

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