Br Qı	Higher Interleaving Quiz Branch 11 Quizzes 1 to 3								
Q	uiz 1		1		$\overline{}$	Home Study Focus			
Q	Topic	Σ	R	А	G				
1	Standard Form								
2	Functions								
3	Transformations					Home Study			
4	Probability					Completed			
Q 1 2	Topic Proportion Simultaneous Equations	Σ	R	A	G				
3	PAV problem					Home Study			
4	Averages from a Table					Completed			
	Quiz 3 Home Study Focus								
Q	Topic	Σ	R	Α	G				
1	Recurring Decimals				\sqcup				
2	Regional Inequalities				\sqcup				
3	Circle Theorems		-		\sqcup	Home Study			
4	Histogram		-	L		Completed			
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Higher Interleaving Quiz

Branch 11 Quiz 1



1) Place the following numbers in ascending order: 3 0.308×10^4 , 30.8×10^3 ,

 3.8×10^{3} ,

 8.2×10^{-2}

(2 marks)

2) f(x) = 2x - 4 and $g(x) = 3x^2$

a) Find $f^{-1}(x)$

(2 marks)

Answer:

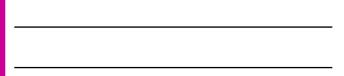
b) Find fg(x)

(2 marks)

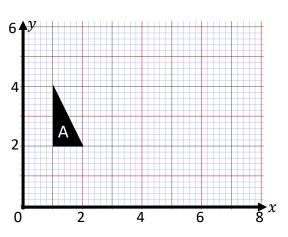
b) Find the value of x when fg(x) = 50

Answer:

(2 marks)



Answer: _____



a) Reflect A in the line x = 3. Label the new shape B.

(2 marks)

b) Rotate B 90° Anti-Clockwise from the point (6,3). Label the new shape C. (1 mark)

4) A bag contains counters that are blue, red, pink and green.

A counter is chosen at random.

The probability it is red is $\frac{3}{20}$.

Work out the probability it is pink.

(4 marks)

	Blue	Red	Pink	Green
Number of Counters	4x + 5	15	5 <i>x</i>	7 <i>x</i>

Answer:

Q	Topic	Σ	R	Α	G
1	Standard Form				
2	Functions				
3	Transformations				
4	Probability				
		-			

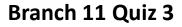
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Higher Interleaving Quiz Branch 11 Quiz 2



Branch	11 (Quiz 2			10		
1) y is inversely proportion to the square of x . $y = 5$ when $x = 3$ Find the value of y when $x = 5$ (4 mark)		A school are p Will the Calcul capsule box?	_	-	15cm	e <i>nai</i> m 5mi	
Answer:	- _						
2) Miss B buys 22 bags of sweets for her form class. There are x bags that cost 10p each. There are y bags that cost 8p each. a) Write down an equation connecting x and y . (1 main	• !	An There are 250 ru	swer:	ordore	half		
Answer:	1 -	arathon.	illers III the bo	Jiueis	(3 r	nar	·ks
b) The total cost of the bags is £1.92. Use algebra to work out the values of x and y . You must show your working out. (4 mark)	rs)	Time (t) in mins $80 < t \le 120$ $120 < t \le 140$ $140 < t \le 180$	Frequency 60 90 100				
		t > 180 Estimate the means	0 an time				
	- - -	Ans	wer:				
	Q	Тор	oic	Σ	R	Α	7
	1	Proportion					İ
	2	Simultaneous Eq	luations				
	- 3	PAV problem					
x = v =	4	Averages from a	Table				Ī
x = y =	- [www.miss	sbsresour	ces.c	cor	n	

Higher Interleaving Quiz

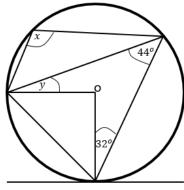


3)



1) Express $0.3\dot{4}\dot{5}$ as a fraction in its simplest form.

(3 marks)



Find the size of the missing angles x and y. Give reasons for your answers. (6 marks)

Answer: _____

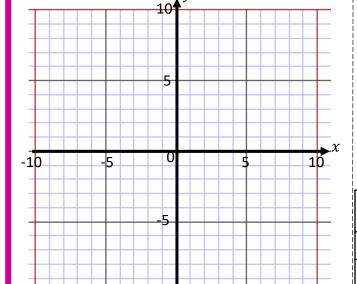
2) On the grid shade the region that satisfies all three of these inequalities. (3 marks)

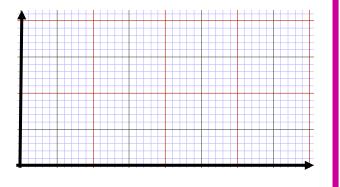
$$-4 < x < 6$$
, $y > -8$ and $y > \frac{x}{2} + 1$



4) Draw a histogram to represent the information.
(3 marks)

Time (t) in mins	Frequency
$50 < t \le 60$	8
$60 < t \le 65$	9
$65 < t \le 80$	15





Q	Topic	Σ	R	Α	G
1	Recurring Decimals				
2	Regional Inequalities				
3	Circle Theorems				
4	Histogram				
	. 1				

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