Br Q	igher Interlead ranch 14 uizzes 1 to 3	vir	g	\ \ \	Zu Z	Home Study Focus		
Q	Topic	Σ	R	A	G	Home Study Focus		
1	Ratio	_	\vdash					
2	Sequences							
3	Right angled trigonometry					Home Study		
4	Box plot					Completed		
	uiz 2	T_	T.	Γ.		Home Study Focus		
Q	Topic	Σ	R	Α	G			
1	Compound Interest							
2	Simultaneous Equations							
3	Trigonometry					Home Study		
4	Pie Chart					Completed		
Q	uiz 3		<u> </u>			Home Study Focus		
Q	Topic	Σ	R	А	G			
1	Fractions							
2	Solving Quadratics		_					
3	Circles and Sectors		_			Home Study		
4	Relative Frequency		<u> </u>			Completed		
	www.missbsresources.com							

Higher Interleaving Quiz



	Branch 15	C	uiz 1		Y	00	V
1) The angles in a triangle are in the ratio 3:4:5. Emily says "This is a right-angled triangle." Is Connor correct? Show your reasoning. (3 marks)			4) In the London Marathon 25% of the population were between 18 and 21 years old. 50% of the population were under 42 years old. The inter-quartile range of ages was 35 years. The oldest person was 86 years old. a) Draw this information as a box plot. (3 mar				
2) a) Which sequence is a geory progression? Circle your answer 1, 1, 2, 3, 5, 1, 4, 7, 1 1, 8, 27, 64, 125, 1, 2, 4, 8 b) Calculate the nth term rule of sequence 10, 3, -4, -1	(1 mark) 0, 13, , 16, of this (2 marks) 1,	rac low me upp	predicted that the age distribute in 20 years time will have a; wer quartile of 27 years, dian of 48 years, per quartile of 69 years. Wake two comments about the large in the age distribution of the large in the age distribution of the large in the age distribution of the large in the large distribution of the large in the large distribution of the large distribution distributio	e pred he rad	icted	d	
Answer: 3) Find the length of AB. A 60° 15 cm	(3 marks)						_ _ _ _
	C	Q	Topic	Σ	R	Α	G
	<u></u>	1	Ratio				
	}	2	Sequences Right angled trigonometry		H		
Anguari		3	Right angled trigonometry Box plot				

www.missbsresources.com

Higher Interleaving Quiz

Branch 15 Quiz 2



(3 marks)

1) Finley wants to invests £5 000 for 3 years. (4 marks) Which bank should he invest in?

Bank A

The account pays 1.8% interest in the first year and 0.3% compound interest from the second year annually.

Answer:

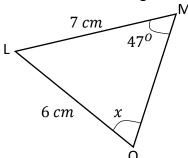
Find the values for x and y.

2)

Bank B

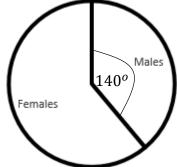
0.6% per annum compound interest.

3	Calculate 1	the size	of the	angle χ
J	Calculate	LIIC JIZC	OI LIIC	ungic A.



Λ	n	S١		Δ	r	•
М		יכו	٧V	C		

4) A school has 400 more girls than boys. How many students are in the school in (4 marks)



total?

(4 marks)

Answer:

Q	Topic	Σ	R	Α	G
1	Compound Interest				
2	Simultaneous Equations				
3	Trigonometry				
4	Pie Chart				

www.missbsresources.com

x =

Higher Interleaving Quiz

Branch 15 Quiz 3



(1 mark)

1) $2\frac{3}{5} + 5\frac{3}{4}$

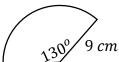
(3 marks)

Answer:

3) a) $x^2 + y^2 = 81$

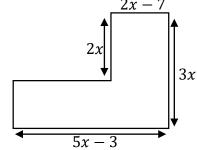
(3 marks) b) Calculate the area of the sector. Give your answer to 3 significant figures.

What is the diameter of the circle?



Answer:

2) The area of the shape is $85 cm^2$.



a) Show that $9x^2 - 17x - 85 = 0$

(2 marks)

4) Here is a spinner.

Answer:



a) Adam is going to spin the spinner 5 times. He says, "I will get one of each number." Give a reason why he could be wrong.

b) Alisha spins the dice 50 times.

(1 mark)

(2 marks)

(3 marks) b) Solve $9x^2 - 17x - 85 = 0$ Give your solutions correct to 3 s.f.

Her results are shown in the table bellow.

Number Spun	1	2	3	5	8
Frequency	12	8	3	10	17

Calculate the relative frequency of spinning an even number.

Answer: ____

Q	Topic	Σ	R	Α	G		
1	Fractions						
2	Solving Quadratics						
3	Circles and Sectors						
4	Relative Frequency						

www.missbsresources.com