Foundation Interleaving Quiz Branch 14 Quizzes 1 to 3								
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Q	uiz 1		•	1	• **	Home Study Focus		
Q	Topic	Σ	R	А	G			
1	Product of Prime Factors							
2	Factorise							
3	Area Problem					Home Study		
4	Venn Diagram					Completed		
	uiz 2		J 			Home Study Focus		
Q	Topic	Σ	R	А	G			
1	Standard Form							
2	Expand and simplify							
3	Right Angled Trigonometry					Home Study		
4	Charts and Averages					Completed		
Q	uiz 3		_	ı		Home Study Focus		
Q	Topic	Σ	R	Α	G			
1	Ratio Problem				Щ			
2	Function Machines							
3	Volume and Mass				Щ	Home Study		
4	Mean from a Table		_			Completed		
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Foundation Interleaving Quiz

Branch 14 Quiz 1



1) Express 84 as a product of it's prime factors in index form. (3 marks)

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2) a) Factorise $24x^2 - 8xy$

Answer:

(1 mark)

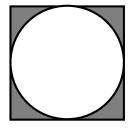
Answer:

b) Factorise $x^2 + 7x + 12$

(1 mark)

Answer:

3) The area of the square is $64cm^2$. Calculate the area of the shaded section. Leave your answer in terms of pi. (5 marks)



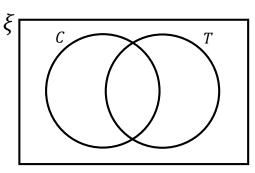
Answer:

4) 80 students were asked in a survey whether they used a computer or a tablet at home.

 $\xi=80$ students

C = Computer

T = Tablet



27 students said they use only Computer.

14 students said they use only Tablet.

29 students said they use both Facebook and Twitter.

a) Put this information on the Venn Diagram.

(1 mark)

b) How many students in the survey do not use either a tablet or a computer (1 mark)

Answer:

c) One of the students is chosen at random.
 What is the probability that this student uses a tablet?

Answer:

d) What proportion of students in the survey use a computer? (1 marks)

Answer:

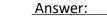
Q	Topic	Σ	R	Α	G
1	Product of Prime Factors				
2	Factorise				
3	Area Problem				
4	Venn Diagram				

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Foundation Interleaving Quiz

Branch 14 Quiz 2

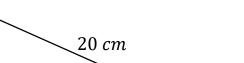
1) Express three million four thousand and twenty six in standard form. (2 marks)



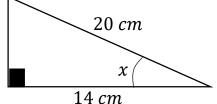
2) Expand and simplify 4(2x-3)-5(x-7) (3 marks)

Answer:	
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3) Workout the size of angle x

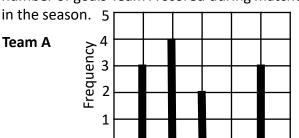


(2 marks)





4) The diagram shows information about the number of goals Team A scored during matches

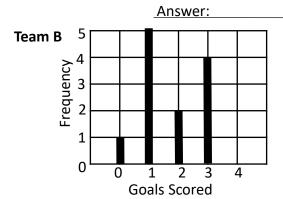


Goals Scored a) What is the mode score?

(1 marks)

Answer:

b) A match is chosen at random from Team A's season. Work out the probability that the goals scored was the mode amount for the team. (2 marks)



- c) Show that Team B's scores are more consistent than Team A's (3 marks)
- d) Calculate the median number of goals Team B scored. (2 marks)

Answer:

Q	Topic	Σ	R	Α	G
1	Standard Form				
2	Expand and simplify				
3	Right Angled Trigonometry				
4	Charts and Averages				

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Foundation Interleaving Quiz

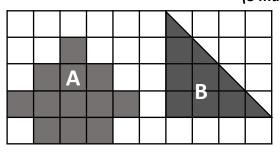
Branch 14 Quiz 3



1) Work out the

area of shape A: area of shape B. Give your answer in it's simplest form.

(3 marks)



4) This frequency table gives information about the scores of 80 students on a maths test.

Score (S)	Frequency	
$0 < S \le 30$	8	
$30 < S \le 40$	13	
$40 < S \le 60$	24	
$60 < S \le 70$	21	
$70 < S \le 80$	14	

a) Calculate an estimate for the mean score.

(3 marks)

Answer:

2) Below is a function machine

Input —	× 2	-13 Output
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a) What is the output when the input is 3x?

(1 marks)

Answer:

b) What is the input when the output is -7?

(1 marks)

Answer:

a) Calculate the volume of the cone. Give your answer correct to 1 d.p..

Volume of cone = $\frac{1}{3}\pi r^2 h$



(3 marks)

Answer:

b) The cone has density of 1.2g/cm³. (2 marks) Calculate the mass of the object.

Answer:

b) Calculate the proportion of the class which scores more than 50% on the test. (2 marks)

Answer:

Answer:

α	Topic	Σ	R	Α	G
1	Ratio Problem				
2	Function Machines				
3	Volume and Mass				
4	Mean from a Table				

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