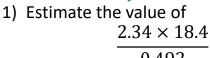
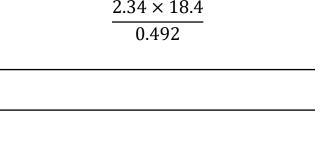
В	Foundation Interleaving Quiz Branch 5 Quizzes 1 to 3							
	000	00	•			1		
	Quiz 1			***	1	1 1	Home Study Focus	
(Q	Topic	Σ	R	А	G		
	L Estimate a	nd Approximate				7		
2	2 Expand and	d Simplify						
3	3 Angle Prob	lem					Home Study	
4	1 Venn Diagr	am					Completed	
	Quiz 2						Home Study Focus	
	2	Topic	Σ	R	Α	G		
-		Prime Factors						
-		ous Equations						
-	+	ed Trigonometry			_		Home Study Completed	
Ľ	1 Probability						Completed	
	Quiz 3			<u> </u>	<u> </u>	<u> </u>	Home Study Focus	
Q		Topic	Σ	R	Α	G		
1	Standard For	m						
2	Sequences							
3	Pythagoras' T			_			Home Study	
4	Averages fro	m a Table		_			Completed	
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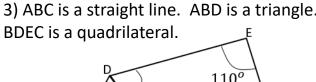
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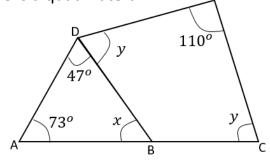




(2 marks)







a) Work out the value of x. Give a reason (1 mark) for your answer.

(2 mark)

$$\frac{12p^2q^5}{4pq^3}$$

b) Work out the value of y.

Answer:

b) Expand and Simplify 3(x+1)-2(x-4) (2 marks)

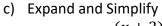
Answer:——

4) $\xi = \{1,2,3,4,5,6,7,8,9,10,11,12\}$

S =square numbers

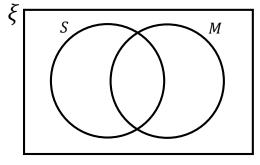
M = Multiples of three





d) Solve

(2 marks) (x + 3)(x - 7)



Answer:

Answer:

(1mark) (x-2)(x+5) = 0

a) Complete the Venn diagram.

(3 IIIUI KS	(3	marks
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	Q	Topic	Σ	R	Α	G
	1	Estimate and Approximate				
1111	2	Expand and Simplify				
1111	3	Angle Problem				
i	4	Venn Diagram				

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Foundation Interleaving Quiz

Branch 5 Quiz 2

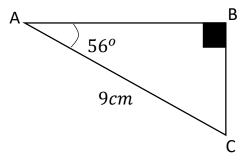


1) Express 252 as a product of its prime factors in index form. (3 marks)

$$5x + 2y = 13$$
$$x + 2y = 9$$

(4 marks)

3) Find the length of the side AB. (2 marks)



4) Carl is playing a game. He has two bags of counters.

One bag has four red counters, numbered 1, 3, 5 and 7.

The other bag has three purple counters, numbered 2,4 and 6.

Carl chooses a red and purple counter at random from each bag.

He works out his score by adding the numbers on the counters together.

a) Complete the table to show all possible scores. (2 marks)

	7			
ters	5			
Counters	3			
ر	1			
·		2	4	6

Purple Counters

b) Work out the probability that Carl gets

I. A score of 7 (2 marks)

Answer:

II. A score of 8 or more (2 marks)

Answer:

Q	Topic	Σ	R	Α	G
1	Product of Prime Factors				
2	Simultaneous Equations				
3	Right Angled Trigonometry				
4	Probability				

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Foundation Interleaving Quiz

Branch 5 Quiz 3



1)

a) Which of these has the greatest value? Circle your answer. (2 mark)

$$21.45 \times 10^4$$

$$2.1 \times 10^{5}$$

$$2.2 \times 10^{4}$$

b) Circle the number written in standard form. *(1 mark)*

$$21.4 \times 10^4$$

$$0.2 \times 10^{-3}$$

$$2.1 \times 10^{5}$$

$$2.2 \times 10^{0.4}$$

11

2) Here are the first three terms of a sequence.

25

-14

Each term is obtained by adding the previous two terms together.

a) Work out the next two terms in the sequence (2 marks)

b) The sequence continues. (2 marks)
How many negative terms are in the sequence?
Circle your answer

1

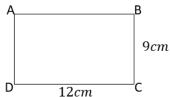
2

3

4

Give a reason for your answer.

3) ABCD is a rectangle.



a) Tom calculates the length AC but gets it wrong. (1 mark)

$$AC = \sqrt{12 + 9}$$

$$AC = \sqrt{21}$$

$$AC = 4.58 cm$$

Explain what Tom has done wrong

b) Calculate the length of AC.

(2 marks)

Answer:

4) The table shows some information about the hand span of 30 adults.

Hand Span (<i>l</i> , cm)	Frequency
10 ≤ <i>l</i> < 12	5
$12 \le l < 14$	9
$14 \le l < 16$	11
16 ≤ <i>l</i> < 24	5

a) Write down the modal class interval,

(1 mark)

Answer:

b) Calculate an estimate for the mean foot length. (4 marks)

Answer:

Q	Topic	Σ	R	Α	G
1	Standard Form				
2	Sequences				
3	Pythagoras' Theorem				
4	Averages from a Table				

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