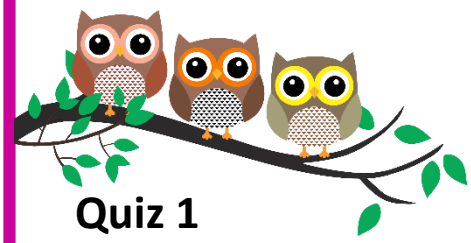
Foundation Interleaving Quiz
Branch 7
Quizzes 1 to 3



Quiz 1

Q	Topic	∑	R	A	G
1	Estimation				
2	Sequences				
3	Perimeter, Area and Volume				
4	Venn Diagram				

Home Study Focus

Home Study Completed ☐

Quiz 2

Q	Topic	∑	R	A	G
1	Fractions Decimals Percentages				
2	Simultaneous Equations				
3	Right-Angled Trigonometry				
4	Charts and Averages				

Home Study Focus

Home Study Completed ☐

Quiz 3

Q	Topic	∑	R	A	G
1	Product of Prime Factors				
2	Form and Solve				
3	Pythagoras' Theorem				
4	Averages from a Table				

Home Study Focus

Home Study Completed ☐

Foundation Interleaving Quiz

Branch 7 Quiz 1

1) Millie says an approximate solution or the following calculation is 4.3. Use your calculator to show that this approximation is within 0.1. ***(2 marks)***

$$1 + (\frac{2}{3} + \frac{5}{6} + \frac{8}{9} + \frac{11}{12})$$

Answer: _____

2) The first five terms of a arithmetic sequence are

$$5, \quad 3, \quad 1, \quad -1, \quad \ldots$$

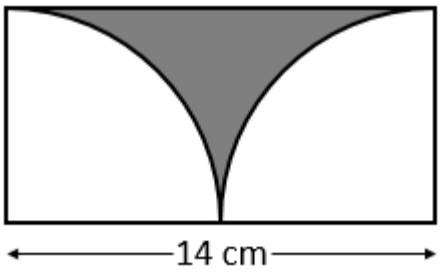
a) Work out the 7th term of the arithmetic sequence ***(2 mark)***

Answer: _____

b) Find in terms of n, an expression for the nth term of this sequence. ***(2 marks)***

Answer: _____

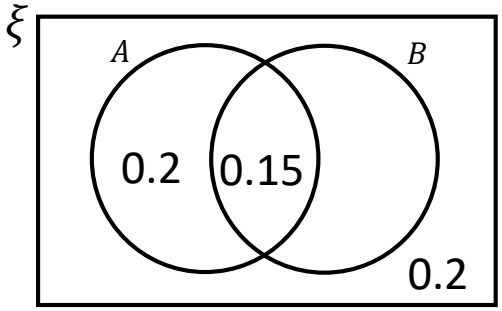
3) Two identical quarter circles are cut from a rectangle as shown.



Work out the shaded area. ***(5 marks)***

Answer: _____

4) A and B are two events.
Some probabilities are shown on the Venn diagram.



a) Complete the Venn diagram. ***(2 marks)***

b) Work out $P(A \cup B)$ ***(2 marks)***

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Branch 7 Quiz 2

1) Express 25cm as a fraction of 2m.
Give your answer in it's simplest form. ***(3 marks)***

Answer: _____

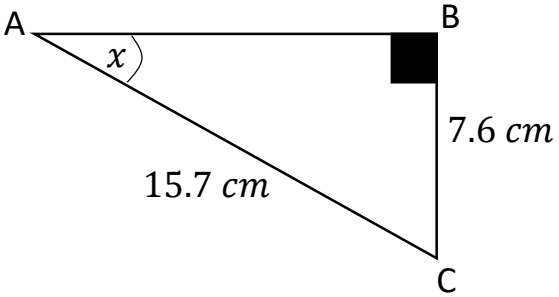
2) Solve

$$5x + 2y = 4$$
$$4x - y = 11$$

(4 marks)

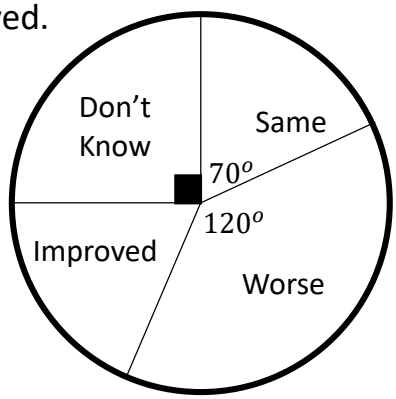
$x =$ _____ $y =$ _____

3) Find size of angle BAC. ***(2 marks)***



Answer: _____

4) In a survey, rail company asked passengers whether their service had improved.



What is the probability that a person picked at random from this survey answered "Improved"? ***(3 marks)***

210 people thought the quality of the service was the same. ***(3 marks)***
What was the sample size of the survey?

Answer: _____

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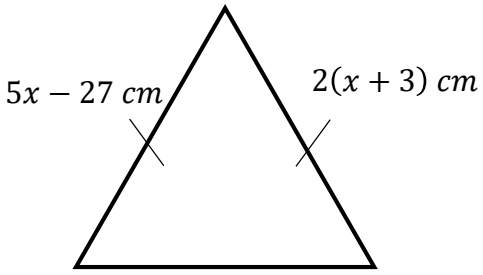
Foundation Interleaving Quiz

Branch 7 Quiz 3

1) 144 can be expressed in the form of $2^a \times 3^b$.
Find the values of a and b.
(3 marks)

Answer: _____

2) This is an isosceles triangle.



Find the value of x.
(4 marks)

Answer: _____

3) Here are two coordinates:
A $(2, 5)$
B $(5, 9)$
What is the distance between the two points?
(3 marks)

Answer: _____

4) The table shows some information about the height of 120 Students.

Height (x, centimetres)	Frequency
$150 \leq x < 160$	20
$160 \leq x < 165$	35
$165 \leq x < 175$	55
$175 < x \leq 200$	10

a) Write down the median class interval.
(2 marks)

Answer: _____

b) Calculate an estimate for the mean height.
(3 marks)

Answer: _____

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