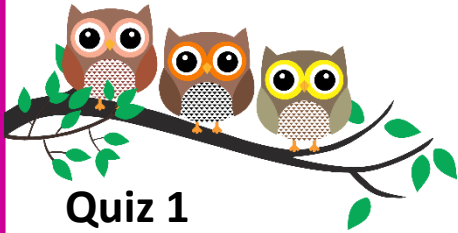


Foundation Interleaving Quiz

Branch 6

Quizzes 1 to 3



Quiz 1

Q	Topic	Σ	R	A	G
1	Four Rules of Fractions				
2	Expand and Simplify				
3	PAV Problem				
4	Venn Diagram				

Home Study Focus

Home Study Completed ☐

Quiz 2

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Simultaneous Equations				
3	Right-Angled Trigonometry				
4	Averages				

Home Study Focus

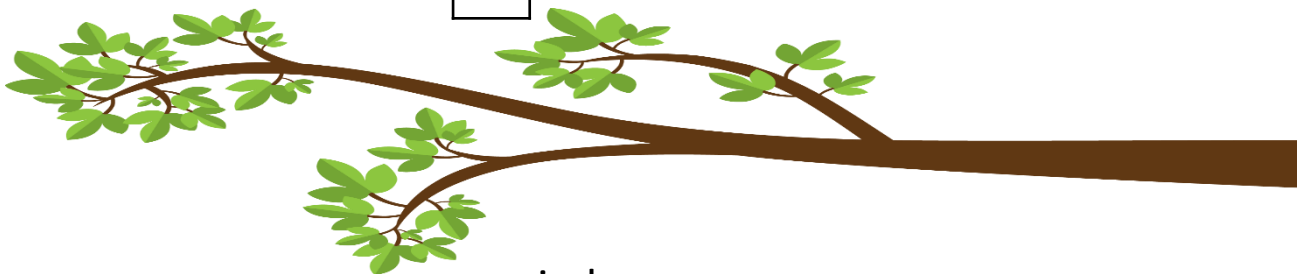
Home Study Completed ☐

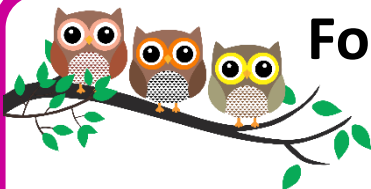
Quiz 3

Q	Topic	Σ	R	A	G
1	Percentage Problem				
2	Form and Solve Equations				
3	Pythagoras' Theorem				
4	Averages from a Table				

Home Study Focus

Home Study Completed ☐





Foundation Interleaving Quiz



Branch 6 Quiz 1

1) Work out

(3 marks)

$$3\frac{2}{5} \times 2\frac{3}{4}$$

Give your answer as a mixed number in its simplest form.

Answer: _____

2)

a) Simplify

(2 marks)

$$\frac{18p^6q^4}{6p^2q}$$

Answer: _____

b) Expand and Simplify

(2 marks)

$$4(2x + 7) - 3(x + 5)$$

Answer: _____

c) Expand and Simplify

(2 marks)

$$(x - 3)(x + 2)$$

Answer: _____

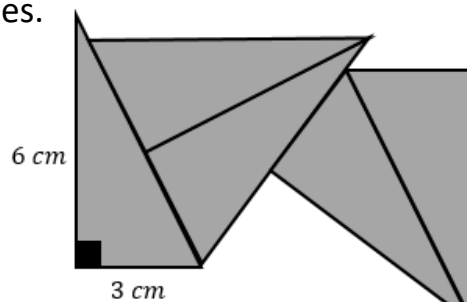
d) Solve

$$(x + 5)(x - 4) = 0$$

(1mark)

Answer: _____

3) This shape is made from 5 congruent triangles.



Find the total area of the shape.

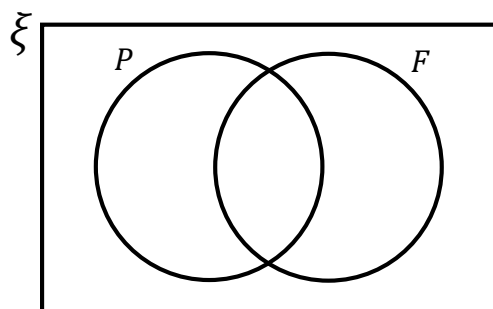
(3 marks)

Answer: _____

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

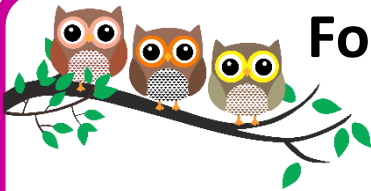
P = Prime numbers

F = Factors of 18

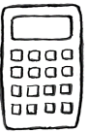


a) Complete the Venn diagram. (2 marks)

Q	Topic	Σ	R	A	G
1	Four Rules of Fractions				
2	Expand and Simplify				
3	PAV Problem				
4	Venn Diagram				



Foundation Interleaving Quiz



Branch 6 Quiz 2

1) Holly , Liam and Millie shared some sweets in the ratio 2: 3: 5. Mille got 14 more sweets than Liam. Work out the total number of sweets they shared.

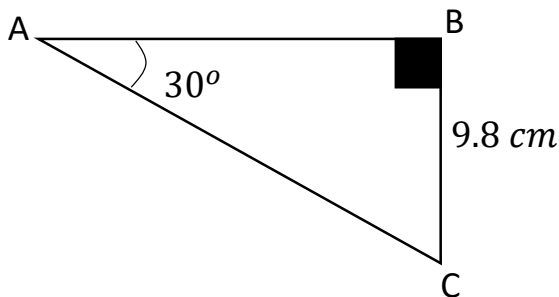
(4 marks)

Answer: _____

2) Two numbers have a sum of 24 and a difference of 5. Use an **algebraic method** to find the two numbers. (4 marks)

$x =$ _____ $y =$ _____

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



Answer: _____

4) Ella and 5 other members of a class measure their heights.

The heights, in centimetres, of the five other class mates are shown.

164 159 181
172 146

The mean height for all 6 members of the class was 163 cm.

a) Was Ella the smallest person?
You must show your working.

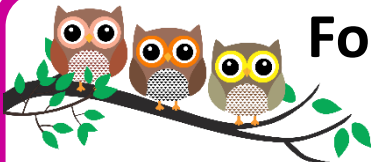
(3 marks)

b) Calculate the range of the heights?

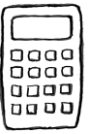
(2 marks)

Answer: _____

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Simultaneous Equations				
3	Right-Angled Trigonometry				
4	Averages				



Foundation Interleaving Quiz

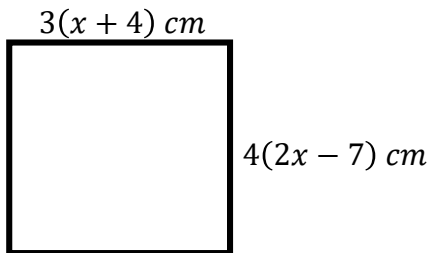


Branch 6 Quiz 3

- 1) Yasin sells cookies.
One day he sells 38 cookies.
The next day he sells 95 cookies.
Work out the percentage increase in the number of cookies he sells. **(3 marks)**

Answer: _____

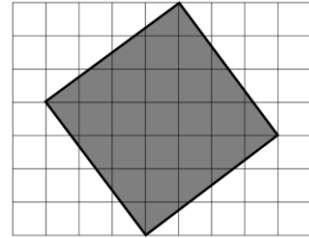
- 2) This is a square



Calculate the perimeter of the square. **(5 marks)**

Answer: _____

- 3) This square is drawn on a one-centimetre square grid.



Work out the area of the square.

(3 marks)

Answer: _____

- 4) The table shows some information about the ages of 50 teachers.

Ages (x , years)	Frequency
$20 \leq x < 30$	14
$30 \leq x < 40$	19
$40 \leq x < 55$	11
$55 < x \leq 65$	6

- a) Write down the modal class interval. **(1 mark)**

Answer: _____

- b) Calculate an estimate for the mean age. **(3 marks)**

Answer: _____

Q	Topic	Σ	R	A	G
1	Percentage Problem				
2	Form and Solve Equations				
3	Pythagoras' Theorem				
4	Averages from a Table				