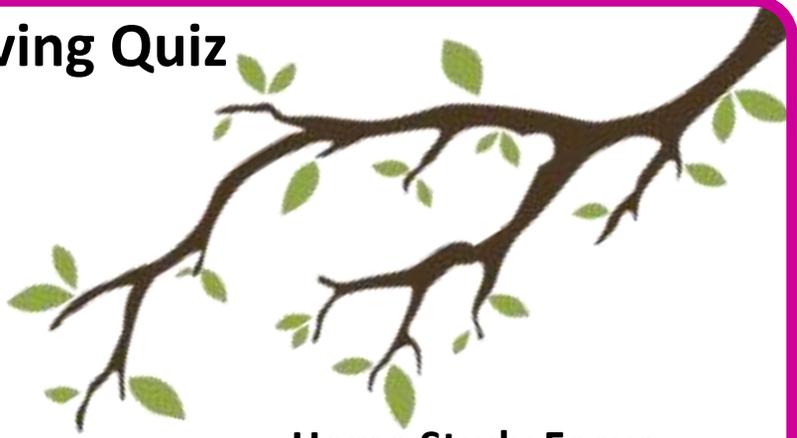


Foundation Interleaving Quiz

Branch 10

Quizzes 1 to 3



Quiz 1

Q	Topic	Σ	R	A	G
1	Product of Prime Factors				
2	Factorise and Solve				
3	Area Problem				
4	Charts and Averages				

Home Study Focus

Home Study Completed

Quiz 2

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Simultaneous Equation				
3	Angle Problems				
4	Mean from a Table				

Home Study Focus

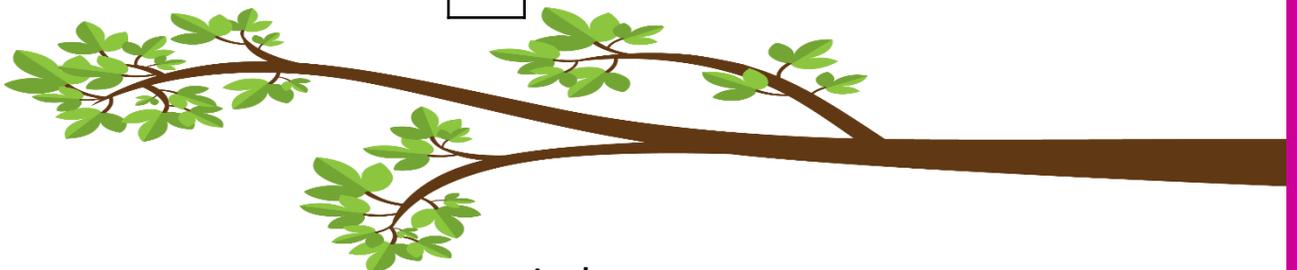
Home Study Completed

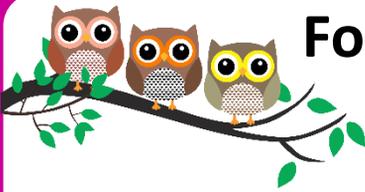
Quiz 3

Q	Topic	Σ	R	A	G
1	Standard Form				
2	Form and Solve Equations				
3	Right Angled Trigonometry				
4	Probability				

Home Study Focus

Home Study Completed





Foundation Interleaving Quiz



Branch 10 Quiz 1

1) Express 520 as a product of its prime factors in index form. **(3 marks)**

Answer: _____

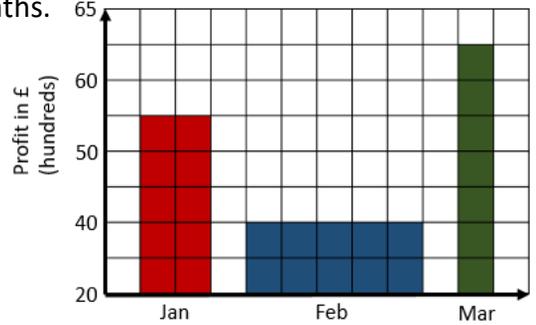
2) Factorise and Solve
 $x^2 - 7x + 10 = 0$ **(3 marks)**

Answer: _____

3) Mrs D has a display board measuring 72cm by 56 cm.
 She wants to display postcards, each measuring 9cm by 6 cm.
 If no postcards overlap, find the maximum number of postcards she can display. **(4 marks)**

Answer: _____

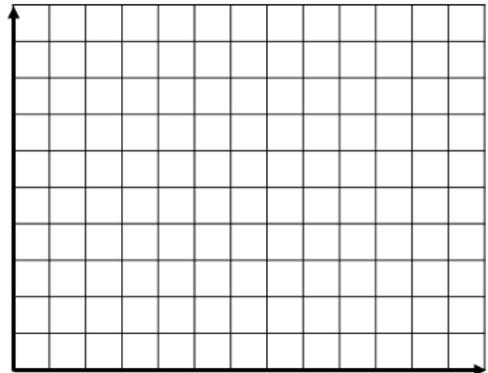
4) This chart shows the sales of a restaurant for 3 months.



a) Give two reasons why the chart is misleading. **(2 marks)**

b) Accurately draw a bar chart to represent the information in the table below. **(3 marks)**

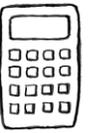
Month	Apr	May	Jun
Profit in £	2000	3500	3750



Q	Topic	Σ	R	A	G
1	Product of Prime Factors				
2	Factorise and Solve				
3	Area Problem				
4	Charts and Averages				



Foundation Interleaving Quiz



Branch 10 Quiz 2

- 1) In a restaurant, the ratio of the number of male to the number of female customers is 3:7. 40% of the males are under the age of 30. 20% of the females are under the age of 30. What percentage of the customers are under the age of 30? **(4 marks)**

Answer: _____

2) Solve

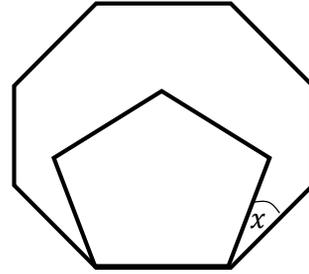
$$\begin{aligned} 2x - 4y &= 18 \\ 4x + 3y &= 14 \end{aligned}$$

(4 marks)

$x =$ _____ $y =$ _____

- 3) The diagram shows a regular pentagon and a regular octagon.

Find the size of the angle marked x . **(4 marks)**



Answer: _____

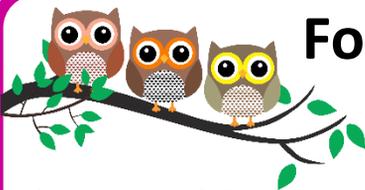
- 4) The table shows some information about the time it takes to be served in a restaurant.

Time (x , minutes)	Frequency		
$0 < x \leq 15$	28		
$15 < x < 25$	30		
$25 < x \leq 35$	39		
$35 < x \leq 45$	23		

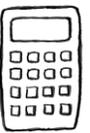
Estimate the mean time. **(3 marks)**

Answer: _____

Q	Topic	Answer:	Σ	R	A	G
1	Ratio Problem					
2	Simultaneous Equation					
3	Angle Problems					
4	Mean from a Table					



Foundation Interleaving Quiz



Branch 10 Quiz 3

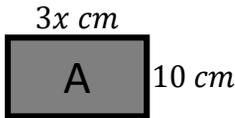
1) Place the following numbers in ascending order:

$$0.205 \times 10^5, \quad 20.5 \times 10^2,$$

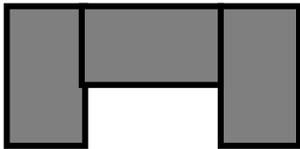
$$2.5 \times 10^4, \quad 5.2 \times 10^{-5}$$

(2 marks)

2) Shape A is a rectangle of length $3x$ cm and width 10 cm.



The shape below contains three rectangles that are congruent to shape A.



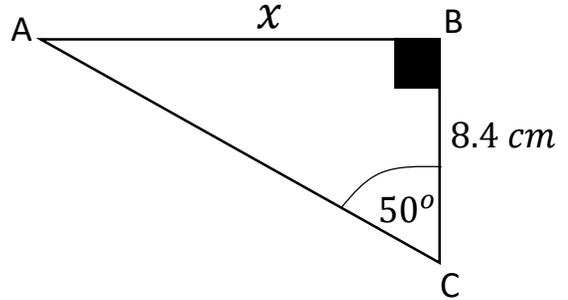
The perimeter of the shape is 320 cm. Find the value of x .

(5 marks)

Answer: _____

3) Find the size of AB .

(3 marks)



Answer: _____

4) There are only red, green, pink and blue counters in a bag.

Colour	Red	Green	Pink	Blue
Probability	0.35			0.15

a) The probability of selecting a green or a pink counter is in the ratio of $1:2$. Work out the probability of selecting a pink counter.

(3 marks)

Answer: _____

b) There are 80 counters in the bag. Work out the number of red counters in the bag.

(2 marks)

Answer: _____

Q	Topic	Σ	R	A	G
1	Standard Form				
2	Form and Solve Equations				
3	Right Angled Trigonometry				
4	Probability				