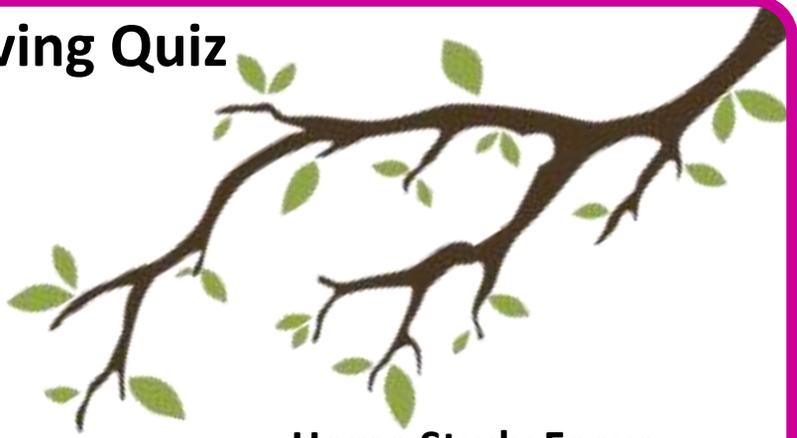
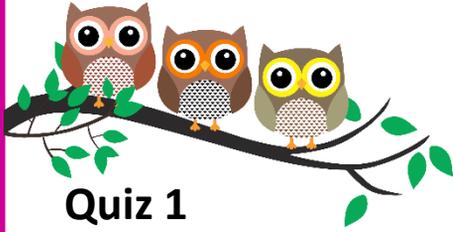


# Foundation Interleaving Quiz

## Branch 2

### Quizzes 1 to 3



### Home Study Focus

#### Quiz 1

Q	Topic	$\Sigma$	R	A	G
1	Estimation				
2	Factorise				
3	Area Problem				
4	Venn Diagram				

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Home Study Completed

#### Quiz 2

Q	Topic	$\Sigma$	R	A	G
1	Ratio Problem				
2	Expand and simplify				
3	Right Angled Trigonometry				
4	Charts and Averages				

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Home Study Completed

#### Quiz 3

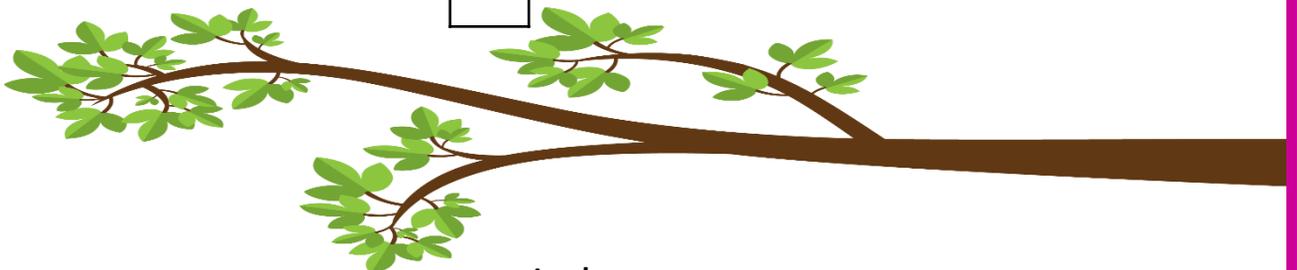
Q	Topic	$\Sigma$	R	A	G
1	Fractions, Decimals & Percentages				
2	Form and Solve Equations				
3	Angle Problem				
4	Frequency Tree				

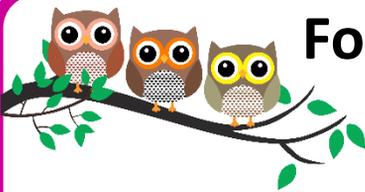
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Home Study Completed





# Foundation Interleaving Quiz



## Branch 2 Quiz 1

1) Estimate the value of

(2 marks)

$$\frac{3.79 \times 18.4}{0.453}$$

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Answer: \_\_\_\_\_

2) a) Factorise  $20x + 12y - 8z$

(1 mark)

Answer: \_\_\_\_\_

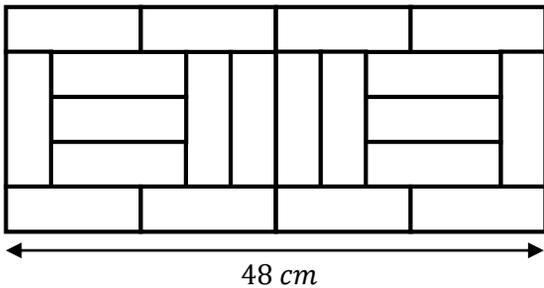
b) Factorise  $x^2 - 8x + 7$

(2 mark)

Answer: \_\_\_\_\_

3) A shape is made from using 20 congruent rectangles. Calculate the area of the shape.

(4 marks)



Not drawn accurately

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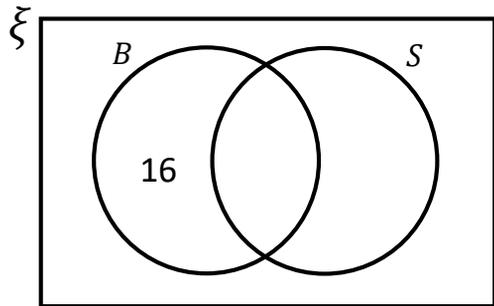
Answer: \_\_\_\_\_

4) 50 students were asked in a survey whether they had a brother or sister.

$\xi = 50$  students

$B =$  Brother

$S =$  Sister



- 26 have a brother
- 28 have a sister
- 16 have a brother but not a sister.

a) Complete the Venn Diagram.

(3 marks)

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b) One person is chosen at random.

Write down  $P(B \cup S)$

(1 marks)

Answer: \_\_\_\_\_

c) What percentage of the students have both a brother and sister?

(2 marks)

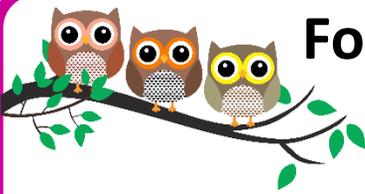
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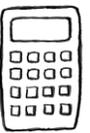
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Answer: \_\_\_\_\_

Q	Topic	$\Sigma$	R	A	G
1	Estimation				
2	Factorise				
3	Area Problem				
4	Venn Diagram				



# Foundation Interleaving Quiz



## Branch 2 Quiz 2

- 1) At a school students take part in a survey about their lunch arrangements.  
*school dinners : packed lunches = 5:3*

a) What fraction of the school have packed lunches? Circle your answer. **(1 mark)**

$\frac{5}{8}$        $\frac{2}{3}$        $\frac{3}{5}$        $\frac{3}{8}$

b) There are 128 more students who have school dinners than packed lunches. Work out the total number of students in the school. **(3 marks)**

Answer: \_\_\_\_\_

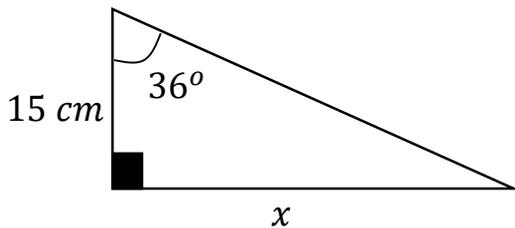
2) a) Expand  $4(2x - 5)$  **(1 mark)**

Answer: \_\_\_\_\_

b) Expand and simplify  $5x - (2x + 4)$  **(2 marks)**

Answer: \_\_\_\_\_

3) Work out the length of side  $x$ . **(3 marks)**  
 Give your answer to 3 significant figures.



\_\_\_\_\_

\_\_\_\_\_

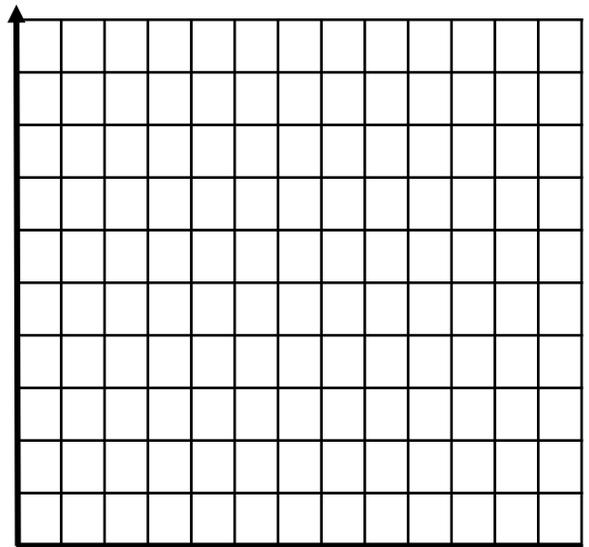
\_\_\_\_\_

Answer: \_\_\_\_\_

- 4) The table shows how 20 students travel to school.

Walk	Car	Bus	Other
8	6	4	2

a) Draw a bar chart to show this information. **(4 marks)**



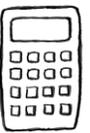
b) Which method of transport was the mode? **(1 mark)**

Answer: \_\_\_\_\_

Q	Topic	$\Sigma$	R	A	G
1	Ratio Problem				
2	Expand and simplify				
3	Right Angled Trigonometry				
4	Charts and Averages				



# Foundation Interleaving Quiz



## Branch 2 Quiz 3

1)

a) What is  $\frac{2}{5}$  as a percentage.

Circle your answer.

- 2.5%      20%      25%      40%

(1 mark)

b) Write 0.7 as a percentage.

Circle your answer.

- 0.07%      0.7%      7%      70%

(1 mark)

c) Write 125% as a decimal.

Circle your answer

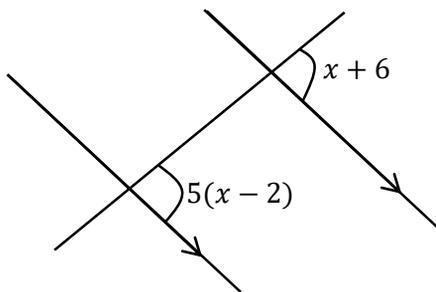
- 0.125      1.025      1.25      12.5

(1 mark)

2) Three straight lines are shown.

Work out the value of  $x$ .

(4 marks)




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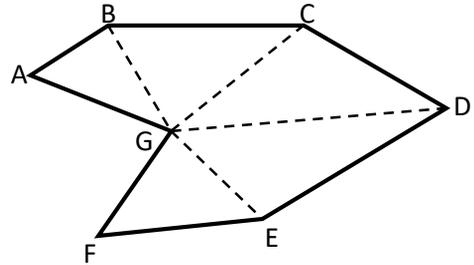
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Answer: \_\_\_\_\_

3) The polygon ABCDEFG is divided into triangles as shown. Use the triangles to work out the sum of the interior angles of the polygon ABCDEFG.



(3 marks)

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Answer: \_\_\_\_\_

4) 80 people took a test.

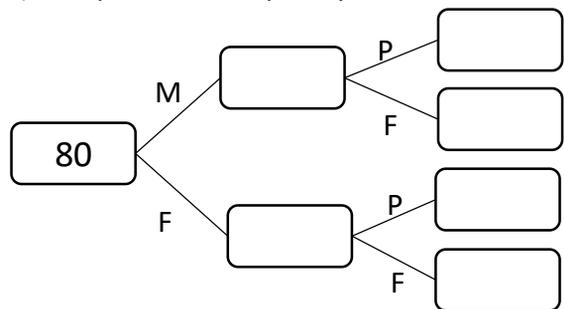
52 people were female.

13 females failed.

47 people passed in total.

a) Complete the frequency tree.

(3 marks)



b) What proportion of males passed the test?

(2 marks)

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Answer: \_\_\_\_\_

Q	Topic	$\Sigma$	R	A	G
1	Fractions, Decimals & Percentages				
2	Form and Solve Equations				
3	Angle Problem				
4	Frequency Tree				