Foundation Interleaving Quiz
Branch 9
Quizzes 1 to 3
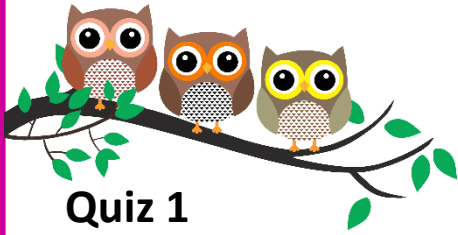
Quiz 1

Q	Topic	∑	R	A	G
1	Four rules of fractions				
2	Factorise and Solve				
3	Area Problem				
4	Averages				

Home Study Focus

_____

_____

Home Study Completed

Quiz 2

Q	Topic	∑	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	∑	R	A	G
1	Percentage Problem				
2	Form Algebraic Expressions				
3	Pythagoras' Theorem				
4	Probability				

Home Study Focus

_____

_____

Home Study Completed
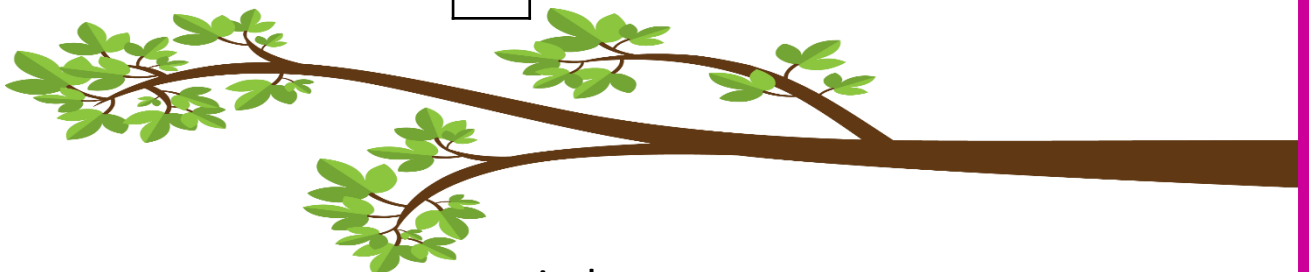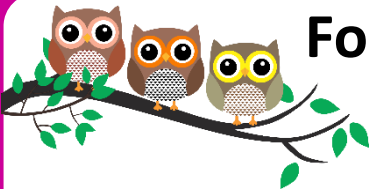
1) Calculate $3\frac{1}{4} + 5\frac{2}{3}$ *(4 marks)*
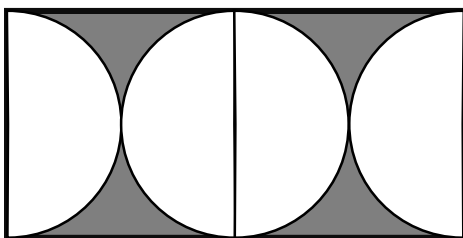
_____

_____

_____

_____

Answer: _____

2) Factorise and Solve
$$x^2 + 11x + 24 = 0$$ *(3 marks)*

_____

_____

_____

Answer: _____

3) A rectangle contains four congruent semicircles of diameter 20 cm.
Calculate the area of the shaded section.
Leave your answer in terms of pi. *(4 marks)*
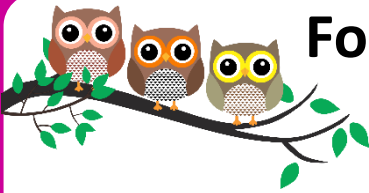

_____

_____

_____

_____
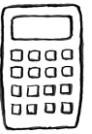
_____

_____

Answer: _____

4) At a kennel, the mean age of 5 dogs is 24 months.
The kennel take another dog in. The mean age of all 6 dogs is now 27 months.
Work out the age of the new dog. *(4 marks)*

_____

_____

_____

_____

_____

Answer: _____

Q	Topic	$\sum$	R	A	G
1	Four rules of fractions				
2	Factorise and Solve				
3	Area Problem				
4	Averages				

1) In a school, the ratio of the number of boys to the number of girls is 2:3.
20% of the boys are under the age of 13.
30% of the girls are under the age of 13.
What percentage of all the people in the school are under the age of 13? **(4 marks)**

Answer: _____
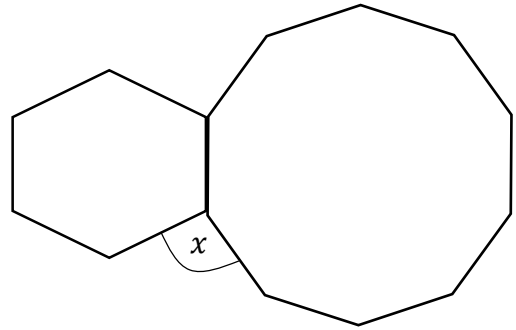
2) Solve

$$4x + 6y = 31$$
$$2x + 2y = 12$$

(4 marks)

$x =$ _____ $y =$ _____

3) The diagram shows a regular hexagon and a regular decagon.
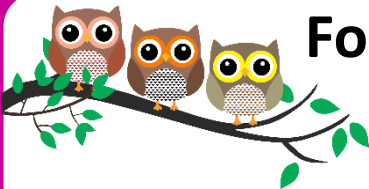Find the size of the angle marked x. **(4 marks)**

Answer: _____

4) The table shows some information about the times of 90 Students in a race.

Time (x, minutes)	Frequency
$20 \leq x < 30$	17
$30 \leq x < 35$	26
$35 \leq x < 45$	34
$45 < x \leq 50$	13

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

Answer: _____

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

www.missbsresources.com

Foundation Interleaving Quiz
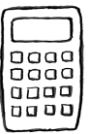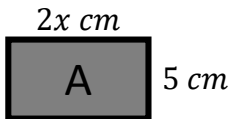
Branch 9 Quiz 3

1) Sophie took a maths test. She scored 17 marks out of 20.
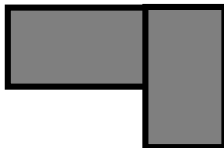Jawad took a maths test. He scored 41 marks out of 50.
I did worse than Jawad as he scored more marks. By writing each score as a percentage, show that I am wrong. **(3 marks)**

_____

_____

_____

_____

_____

Answer: _____

2) Shape A is a rectangle of length $2x$ cm and width $5\ cm$.

$2x\ cm$

A $5\ cm$

The shape below contains two rectangles that are congruent to shape A.
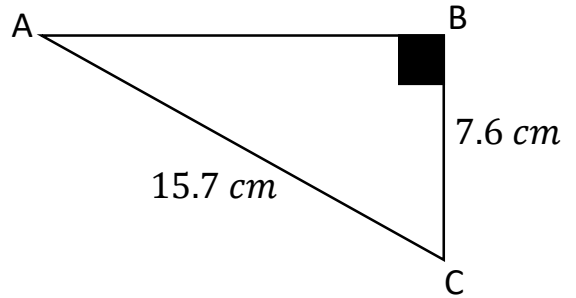
Work out an expression for the perimeter of the shape. (Give your answer in its simplest form.)
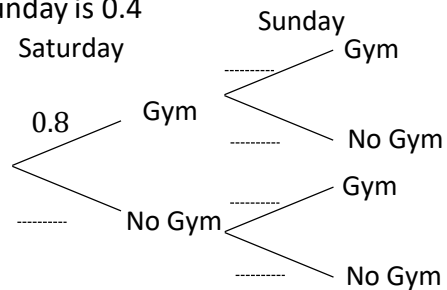
(3 marks)

_____

_____

_____

Answer: _____

3) Find the size of AB. **(3 marks)**

A

B

$7.6\ cm$

$15.7\ cm$

C

_____

_____

_____

Answer: _____

4) The probability that Ollie goes to the gym on a Saturday is 0.8
The probability that Ollie goes to the gym on a Sunday is 0.4

Saturday

Sunday

0.8   Gym

Gym

No Gym

No Gym

Gym

No Gym

a) Complete the probability Tree **(2 marks)**

a) Calculate the probability Ollie goes to the gym on a Saturday and a Sunday. **(1 mark)**

Answer: _____

b) Calculate the probability Ollie goes to the gym on exactly one of these days. **(3 marks)**

Answer: _____

Q	Topic	$\sum$	R	A	G
1	Percentage Problem				
2	Form Algebraic Expressions				
3	Pythagoras' Theorem				
4	Probability				

www.missbsresources.com