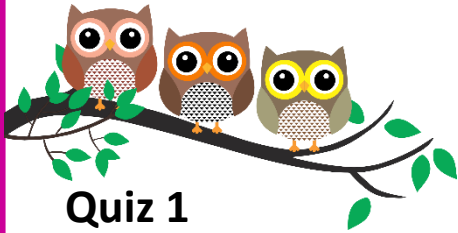


Foundation Interleaving Quiz

Branch 13

Quizzes 1 to 3



Quiz 1

Q	Topic	Σ	R	A	G
1	Product of Prime Factors				
2	Simultaneous Equations				
3	Perimeter, Area and Volume				
4	Venn Diagram				

Home Study Focus

Home Study Completed ☐

Quiz 2

Q	Topic	Σ	R	A	G
1	Standard Form				
2	Expand and Simplify				
3	Right-angled trigonometry				
4	Mean from a Table				

Home Study Focus

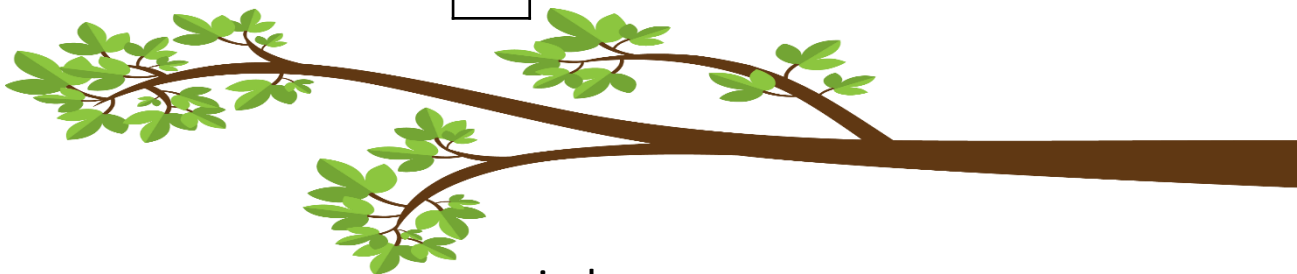
Home Study Completed ☐

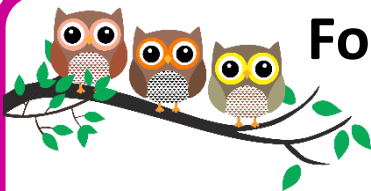
Quiz 3

Q	Topic	Σ	R	A	G
1	Reverse Percentage				
2	Form and Solve Equations				
3	Surface Area				
4	Frequency Tree				

Home Study Focus

Home Study Completed ☐





Foundation Interleaving Quiz



Branch 13 Quiz 1

- 1) Express 280 as a product of its prime factors in index form. **(3 marks)**

Answer: _____

- 2) Miss B buys 12 new instruments.

Each trombone costs £2,000

Each baritone cost £1000

- a) Write down an equation connecting *trombones and baritones*. **(1 mark)**

Answer: _____

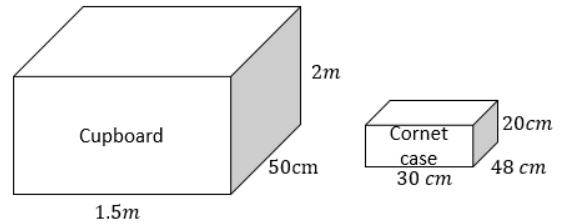
- b) The total cost of the instruments is £19 000.

Use algebra to work out how many trombones and baritones were bought. **(4 marks)**

You must show your working out.

$x =$ _____ $y =$ _____

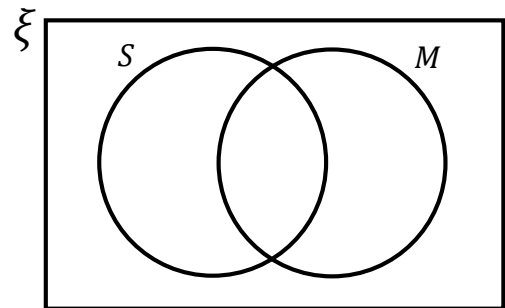
- 3) A band are trying to store a new set of cornets in a cupboard. How many cornet cases fit into the cupboard? **(3 marks)**



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

S = square numbers

M = Multiples of three

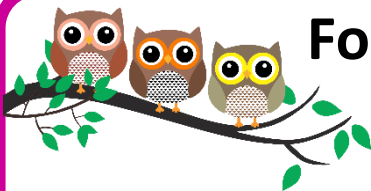


- a) Complete the Venn diagram. **(3 marks)**

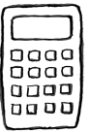
- b) One number is chosen at random. Write down $P(S \cup M)$ **(1 mark)**

Answer: _____

Q	Topic	Σ	R	A	G
1	Product of Prime Factors				
2	Simultaneous Equations				
3	Perimeter, Area and Volume				
4	Venn Diagram				



Foundation Interleaving Quiz



Branch 13 Quiz 2

- 1) Find, in standard form, the value of $(4 \times 10^8) \times (7 \times 10^{-2})$

(3 marks)

Answer: _____

- 2) a) Expand and simplify

$$x + 2(y + x - 3) \quad (1 \text{ marks})$$

Answer: _____

- b) Factorise Fully $12x^2y + 9xy^2$ (2 marks)

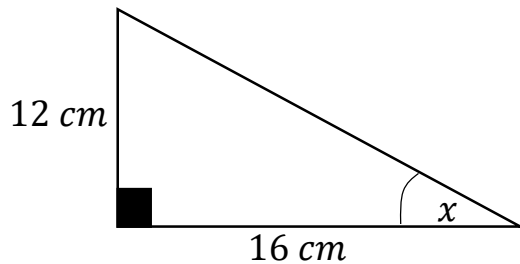
Answer: _____

- c) Factorise and solve $x^2 - 6x - 16 = 0$ (3 marks)

Answer: _____

- 3) Calculate the size of the angle x .

(3 marks)



- 4) There are 500 runners in the London marathon.

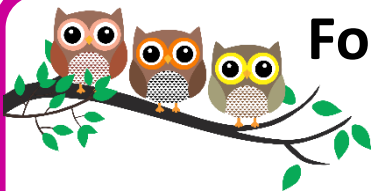
(3 marks)

Time (t) in mins	Frequency		
$160 < t \leq 200$	150		
$200 < t \leq 240$	250		
$240 < t \leq 300$	100		
$t > 300$	0		

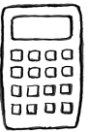
Estimate the mean time

Answer: _____

Q	Topic	Answer:	Σ	R	A	G
1	Standard Form					
2	Expand and Simplify					
3	Right-angled trigonometry					
4	Mean from a Table					



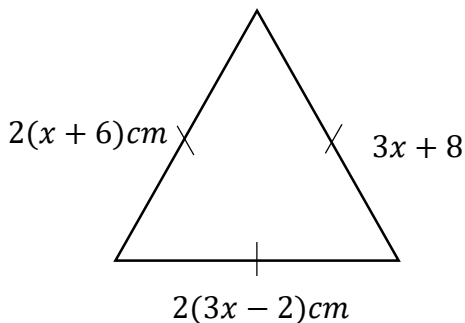
Foundation Interleaving Quiz



Branch 13 Quiz 3

- 1) In a sale, normal prices are reduced by 20%. The normal price of a cornet is reduced by £150. Work out the normal price of the cornet. **(3 marks)**

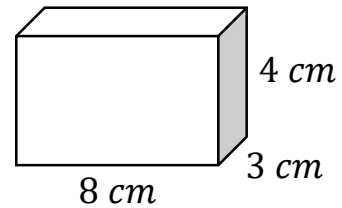
- 2) Here is an equilateral triangle.



What is the perimeter? **(5 marks)**

Answer: _____

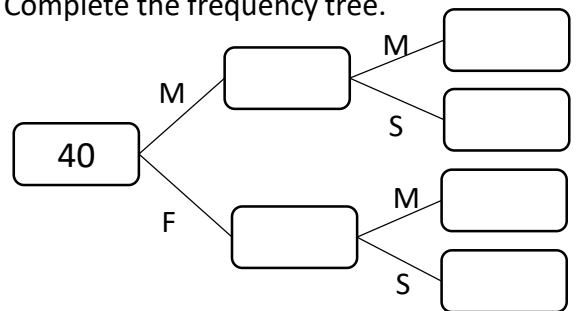
- 3) Calculate the surface area of the cuboid. **(3 marks)**



Answer: _____

- 4) 40 passengers were on a band bus.
20 people were male.
Male musicians to Supporters were in the ratio of 4:1
28 musicians in total **(3 marks)**

- a) Complete the frequency tree.



- b) What proportion of the passengers were female musicians? **(1 marks)**

Answer: _____

Q	Topic	Σ	R	A	G
1	Reverse Percentage				
2	Form and Solve Equations				
3	Surface Area				
4	Frequency Tree				