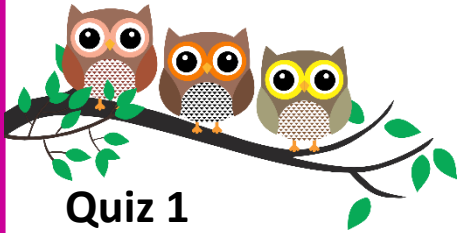


Foundation Interleaving Quiz

Branch 15

Quizzes 1 to 3



Quiz 1

Q	Topic	Σ	R	A	G
1	Four rules of fractions				
2	Factorise and Solve				
3	Right-Angled Trigonometry				
4	Charts and Averages				

Home Study Focus

Home Study Completed ☐

Quiz 2

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Sequence				
3	Angle Problems				
4	Venn Diagrams & Probability				

Home Study Focus

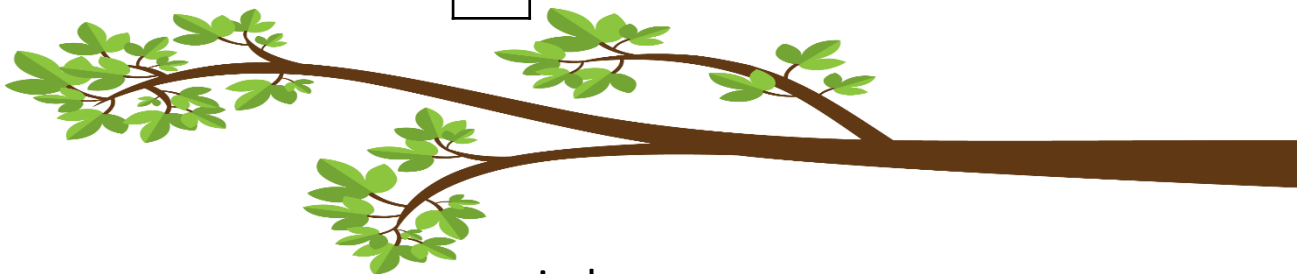
Home Study Completed ☐

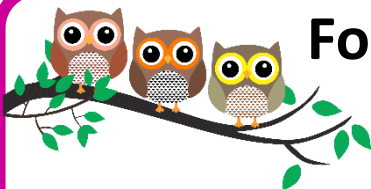
Quiz 3

Q	Topic	Σ	R	A	G
1	Standard Form				
2	Function Machines				
3	Pythagoras				
4	Frequency Tree				

Home Study Focus

Home Study Completed ☐





Foundation Interleaving Quiz



Branch 15 Quiz 1

1) $2\frac{3}{5} + 1\frac{1}{4}$

(3 marks)

Answer: _____

2) Factorise and Solve

$$x^2 + 2x - 15 = 0$$

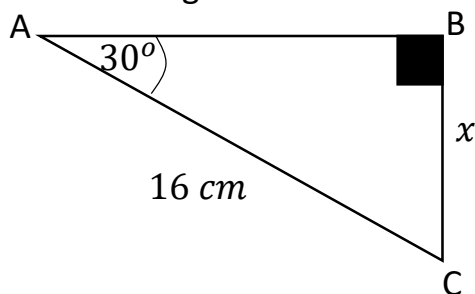
(3 marks)

Answer: _____

3) What is the value of $\sin(30^\circ)$? (1 mark)

Answer: _____

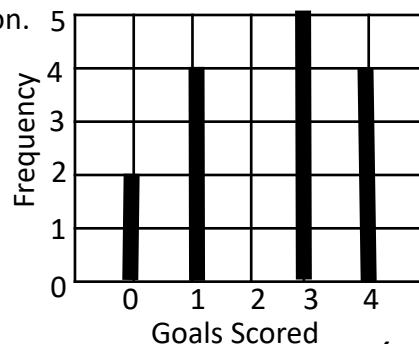
b) Find the length of BC. (2 marks)



Answer: _____

4) The diagram shows information about the number of goals Team A scored during matches in the season.

Team A



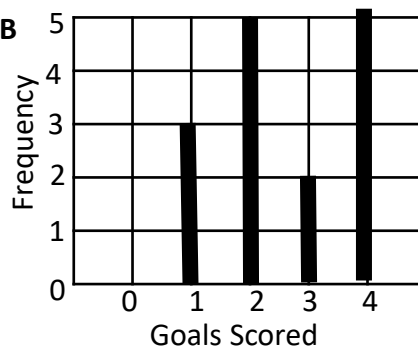
a) What is the mode amount of goals? (1 marks)

Answer: _____

b) A match is chosen at random from Team A's season. Work out the probability that the goals scored was the median amount for the team. (3 marks)

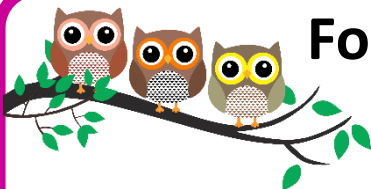
Answer: _____

Team B

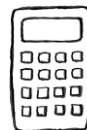


c) Show that Team B's scores are more consistent than Team A's (2 marks)

Q	Topic	Σ	R	A	G
1	Four rules of fractions				
2	Factorise and Solve				
3	Right-Angled Trigonometry				
4	Charts and averages				



Foundation Interleaving Quiz



Branch 15 Quiz 2

1) The angles in a triangle are in the ratio 3 : 4 : 5.
Connor says "This is a right-angled triangle."
Is Connor correct? Show your reasoning. **(3 marks)**

2) a) Which sequence is a geometric progression? **(1 mark)**
Circle your answer

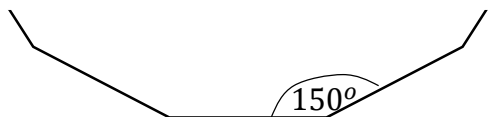
- 1, 1, 2, 3, 5, ... 1, 4, 7, 10, 13, ...
1, 8, 27, 64, 125, ... 1, 2, 4, 8, 16, ...

b) Calculate the nth term rule of this sequence **(2 marks)**

10, 3, -4, -11, ...

Answer: _____

3) Below is part of a regular shape.
How many sides does it have? **(3 marks)**



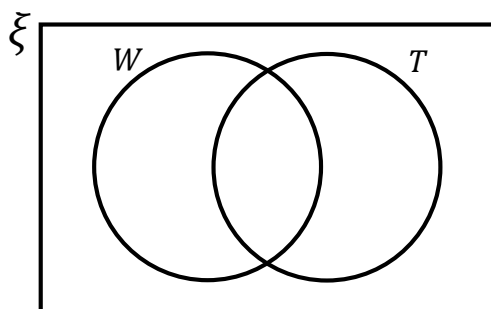
Answer: _____

4) 50 students were asked in a survey whether they write or type essays.

ξ = 50 students

W = Write

T = Type



12 students said they write.
38 students said they type.
8 students said they don't do either.

a) Complete the Venn Diagram **(3 marks)**

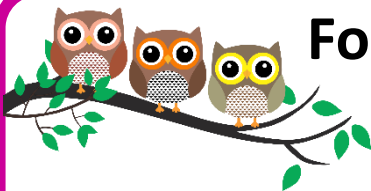
b) One of the students is chosen at random.
 $P(W \cap T)$ **(1 marks)**

Answer: _____

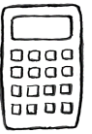
c) What percentage of students in the survey use type? **(2 marks)**

Answer: _____

Q	Topic	Σ	R	A	G
1	Ratio Problem				
2	Sequence				
3	Angle Problems				
4	Venn Diagrams & Probability				



Foundation Interleaving Quiz

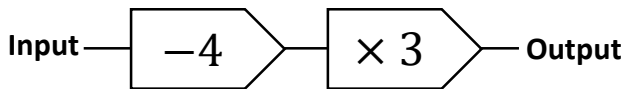


Branch 15 Quiz 3

- 1) Find, in standard form, the value of $(4.2 \times 10^{-2}) \times (3 \times 10^5)$ **(3 marks)**

Answer: _____

- 2) Below is a function machine



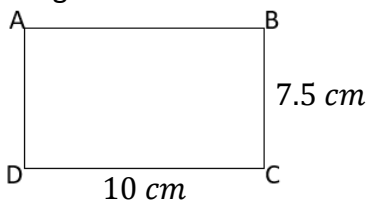
- a) What is the output when the input is -2 ? **(1 mark)**

Answer: _____

- b) What is the output when the input is $3x$? **(2 marks)**

Answer: _____

- 3) ABCD is a rectangle.



- a) Tom calculates the length AC but gets it wrong. **(2 marks)**

$$AC = \sqrt{10 + 7.5}$$

$$AC = \sqrt{17.5}$$

$$AC = 4.18 \text{ cm}$$

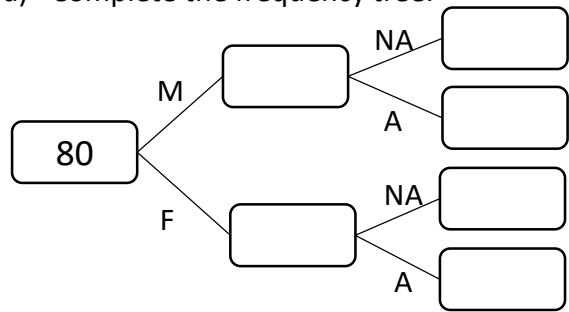
Explain what Tom has done wrong

- b) Calculate the length of AC. **(1 mark)**

Answer: _____

- 4) 80 people drive buses.
24 people were female.
Females drivers have had no accidents to accidents in the ratio of 7:1
15 people have had accidents in total. **(3 marks)**

- a) Complete the frequency tree.



- b) Saman states that a higher proportion of males have accidents than females. **(3 marks)**
Is she correct?
Give reason for your answer.

Q	Topic	Σ	R	A	G
1	Standard Form				
2	Function Machines				
3	Pythagoras				
4	Frequency Tree				