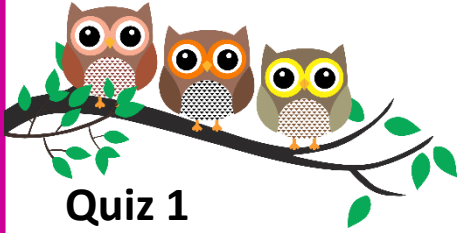


Foundation Interleaving Quiz

Branch 8

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

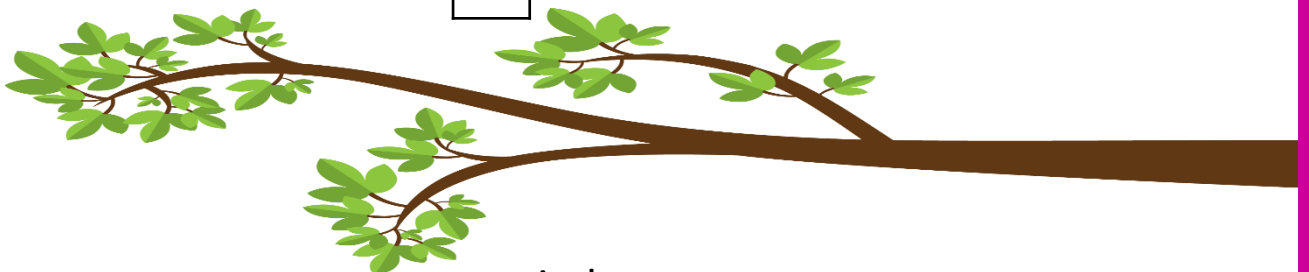
Home Study Completed

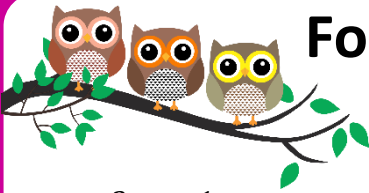
Quiz 3

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

Home Study Focus

Home Study Completed





Foundation Interleaving Quiz



Branch 8 Quiz 1

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

(3 marks)

Answer: _____

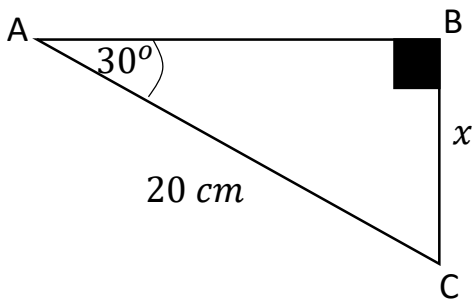
2) Factorise and Solve

$$x^2 - 3x - 18 = 0 \quad (3 \text{ marks})$$

Answer: _____

3) Find the length of BC.

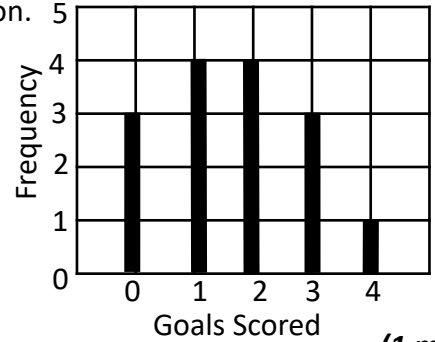
(3 marks)



Answer: _____

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

Team A



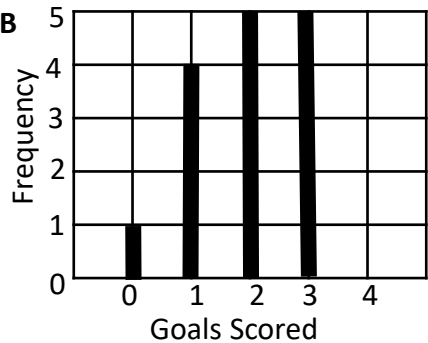
a) What is the mode amount of goals? (1 marks)

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)

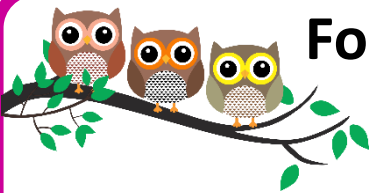
Answer: _____

Team B

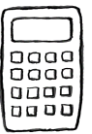


c) Show that Team B's scores are more consistent than Team A's (2 marks)

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 8 Quiz 2

1) The angles in a triangle are in the ratio 2 : 3 : 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

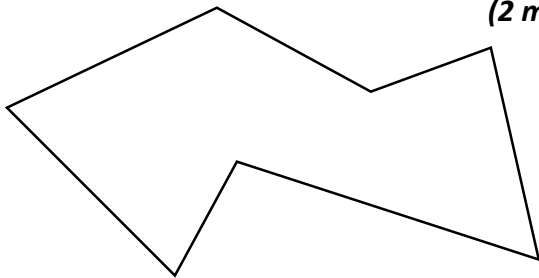
2, 8, 18, 32, 50, ... 2, 8, 14, 20, 26, ...

2, 8, 32, 128, 512, ... 1, 1, 2, 3, 5, ...

b) Calculate the nth term rule of this sequence **(2 marks)**
2, 8, 14, 20, 16, ...

Answer: _____

3) Calculate the sum of the interior angles. **(2 marks)**



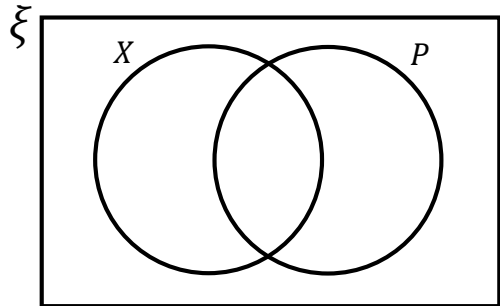
Answer: _____

4) 40 students were asked in a survey whether they gamed on Xbox or PlayStation.

$\xi = 40$ students

$X =$ Xbox

$P =$ PlayStation



17 students said they use only Xbox.
12 students said they use only PlayStation
5 students said they use both Xbox and PlayStation.

a) Put this information on the Venn Diagram. **(1 mark)**

b) Calculate the probability of selecting a person who doesn't use a Xbox or PlayStation. **(2 mark)**

Answer: _____

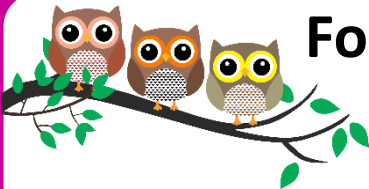
c) One of the students is chosen at random.
 $P(X \cup P)$ **(2 marks)**

Answer: _____

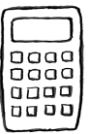
d) What percentage of students in the survey use an Xbox? **(2 marks)**

Answer: _____

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



Foundation Interleaving Quiz

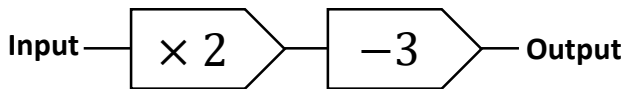


Branch 8 Quiz 3

- 1) Find, in standard form, the value of $(5.8 \times 10^3) \times (2 \times 10^2)$ **(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 input when the output is -2 ? **(1 mark)**

Answer: _____

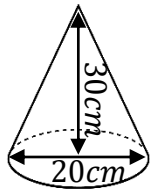
- c) What is the output when the input is $3x$? **(1 mark)**

Answer: _____

- 3) a) Calculate the volume of the cone. **(2 marks)**

Give your answer correct to 1 d.p..

$$\text{Volume of cone} = \frac{1}{3}\pi r^2 h$$



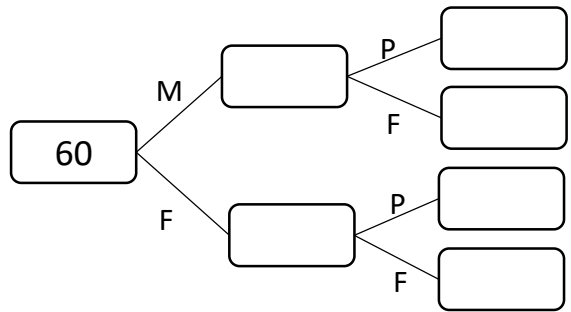
Answer: _____

- b) The cone has density of 0.3g/cm^3 . **(2 marks)**
Calculate the mass of the object.

Answer: _____

- 4) 60 people took a test.
28 people were female.
females passed and failed in the ratio of 3:4
43 people passed in total. **(3 marks)**

- a) Complete the frequency tree.



- b) Holly states that a higher proportion of males passed the test to females. Is she correct? Give reason for your answer. **(2 marks)**

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