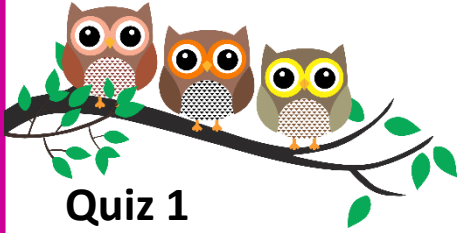


Foundation Interleaving Quiz

Branch 4

Quizzes 1 to 3



Quiz 1

| Q | Topic | Σ | R | A | G |
|---|-----------------------------------|----------|---|---|---|
| 1 | Fractions, Decimals & Percentages | | | | |
| 2 | Expand and Simplify | | | | |
| 3 | Angle Problem | | | | |
| 4 | Probability | | | | |
| | | | | | |

Home Study Focus

Home Study Completed

Quiz 2

| Q | Topic | Σ | R | A | G |
|---|---------------------------|----------|---|---|---|
| 1 | Four Rules of Fractions | | | | |
| 2 | Form and Solve Equations | | | | |
| 3 | Right Angled Trigonometry | | | | |
| 4 | Averages | | | | |
| | | | | | |

Home Study Focus

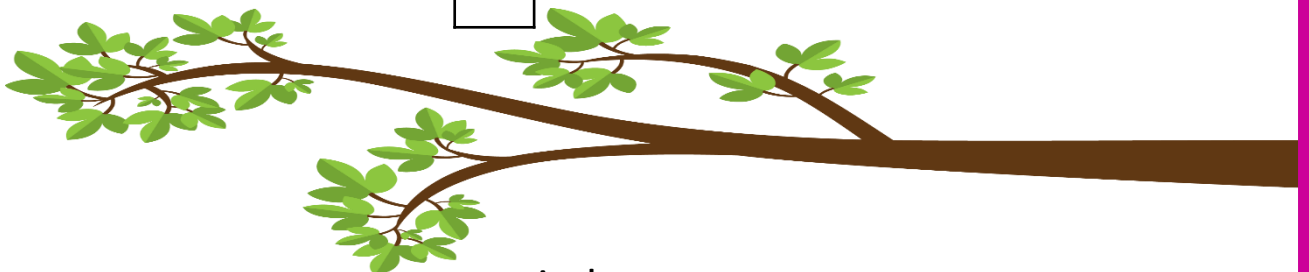
Home Study Completed

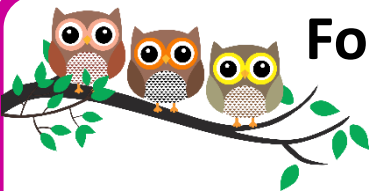
Quiz 3

| Q | Topic | Σ | R | A | G |
|---|--------------------|----------|---|---|---|
| 1 | Percentage Problem | | | | |
| 2 | Solve Equations | | | | |
| 3 | Area Problem | | | | |
| 4 | Frequency Tree | | | | |
| | | | | | |

Home Study Focus

Home Study Completed





Foundation Interleaving Quiz



Branch 4 Quiz 1

1) Here are four numbers. **(2 marks)**

$$\frac{5}{8} \quad 0.65 \quad \frac{3}{5} \quad 60.5\%$$

Write these numbers in ascending order.

2) a) Simplify **(1 mark)**

$$m \times m \times m \times m \times m$$

Answer: _____

b) Simplify fully **(2 marks)**

$$3x + 4y - 5 + 2y - 8x - 2$$

Answer: _____

c) Expand **(1 mark)**

$$4(x - 3)$$

Answer: _____

d) Expand and simplify **(2 marks)**

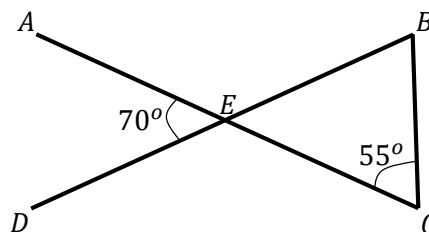
$$(m + 3)(m - 5)$$

Answer: _____

3) AEC and BED are straight lines. **(4 marks)**

Show that the triangle BEC is an isosceles triangle.

Give a reason for each stage of your working.



Answer: _____

4) There are only red, green, pink and blue counters in a bag.

| Colour | Red | Green | Pink | Blue |
|-------------|-----|-------|------|------|
| Probability | 0.2 | 0.1 | | 0.25 |

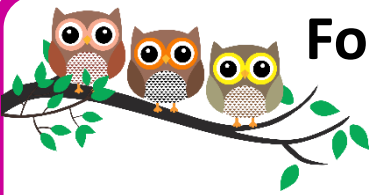
a) Work out the probability of selecting a pink counter. **(1 mark)**

Answer: _____

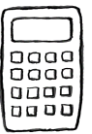
b) There are 250 counters in the bag. Work out the number of red counters in the bag. **(2 marks)**

Answer: _____

| Q | Topic | Σ | R | A | G |
|---|-----------------------------------|----------|---|---|---|
| 1 | Fractions, Decimals & Percentages | | | | |
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Foundation Interleaving Quiz



Branch 4 Quiz 2

- 1) a) Work out (3 marks)

$$\frac{5}{9} + \frac{2}{3}$$

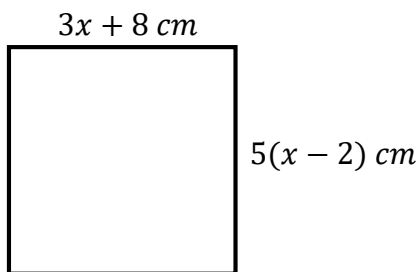
Give your answer as a mixed number.

Answer: _____

- b) Find a fraction between $\frac{1}{5}$ and $\frac{1}{4}$ (2 marks)

Answer: _____

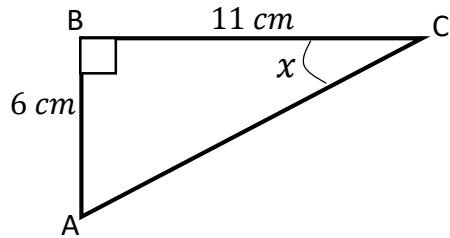
- 2) This is a square. (5 marks)



Work out the **length** of **one side** of the square.

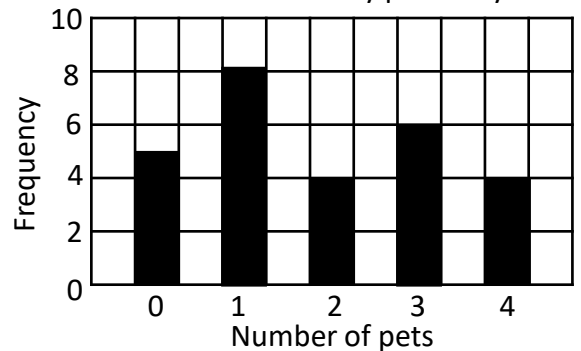
Answer: _____

- 3) Calculate the size of the angle x . (2 marks)
Give your answer to 1 decimal place.



Answer: _____

- 4) Jack asks his class how many pets they have.



His results are shown in this bar chart.

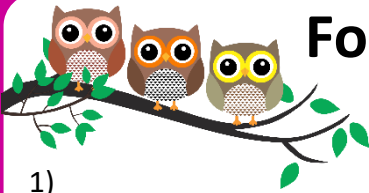
- a) Find the mode number of pets. (1 mark)

Answer: _____

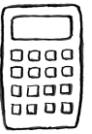
- b) Find the median number of pets. (2 marks)

Answer: _____

| Q | Topic | Σ | R | A | G |
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Foundation Interleaving Quiz

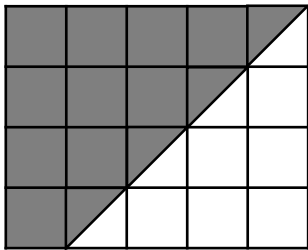


Branch 4 Quiz 3

- 1)
a) The price of a TV is £320. (2 marks)
In a sale the price is reduced by 18%
Calculate the sale price.

Answer: _____

- b) What percentage of this shape is shaded? (2 marks)



Answer: _____

- 2) Solve
a) $2x + 3 = 11$ (1 mark)

Answer: _____

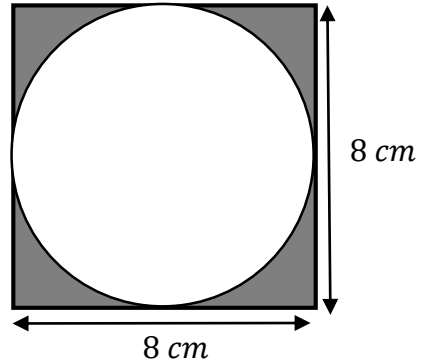
- b) $\frac{x}{3} - 6 = -1$ (2 marks)

Answer: _____

- c) $4x^2 = 100$ (2 marks)

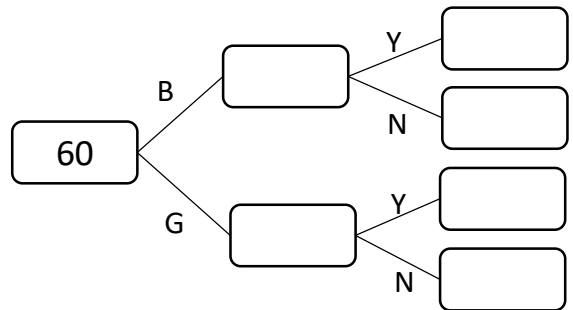
Answer: _____

- 3) The diagram shows a square and a circle.
Work out the shaded area. (3 marks)



Answer: _____

- 4) 60 students in took part in a survey on whether they walk to school or not
27 students were boys.
Boys said yes and no to walking to school in the ratio of 7:2
46 students said yes to walking to school.
Complete the frequency tree. (3 marks)



| Q | Topic | Σ | R | A | G |
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| 4 | Frequency Tree | | | | |