| Br Qı | Higher Interleaving Quiz Branch 2 Quizzes 1 to 3 Quiz 1 Home Study Focus | | | | | |
|-----------------------|--|----------------|---|---|---|------------------|
| Q | Topic | Σ | R | А | G | |
| 1 | Product of Prime Factors | _ | | | | - |
| 2 | Forming and Solving Equations | | | | | |
| 3 | Right Angled Trigonometry | | | | | Home Study |
| 4 | Mean from a Table | | | | | Completed |
| Q 1 2 3 4 | 1 Compound Interest 2 Simultaneous Equation 3 Area Problem Home Study | | | | | |
| Q | uiz 3 | |] | | | Home Study Focus |
| Q | Topic | Σ | R | Α | G | |
| 1 | Compound Interest | | | | | |
| 2 | Forming and Solving Equations | | | | | |
| 3 | Transformations | | | | | Home Study |
| 4 | Cumulative Frequency | | | | | Completed |
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Higher Interleaving Quiz

Branch 2 Quiz 1

1) Express 140 as a product of it's prime factors in index form. (3 marks)

| 4) The times tha | t 50 custor | ners wa | ited in | ı a |
|------------------|-------------|---------|---------|-----|
| drive-thru. | | | | |

| Time (t) in mins | Frequency | |
|--------------------|-----------|--|
| $0 < t \le 2$ | 3 | |
| $2 < t \le 4$ | 14 | |
| 4 < t ≤ 6 | 21 | |
| $6 < t \le 10$ | 8 | |
| $10 < t \le 16$ | 4 | |
| | | |

2) The diagram shows a square. (4 marks)
All lengths are measured in centimetres.
Use an algebraic method to find the length of

Answer:

5x - 2

| | (3 marks |
|---|----------|
| | |
| | |
| | |
| | |
| · | |

a) Calculate an estimate for the mean time.

- b) The manager of the drive-thru says, "80% of our customers wait less than 6 minutes."

Answer:

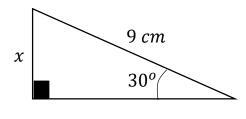
Does the data support this statement?
You must show your working. (2 marks)

3) Workout the length of x

Answer:

Answer:

(3 marks)



| | α | Topic | Σ | R | Α | G |
|-----|---|-------------------------------|---|---|---|---|
| | 1 | Product of Prime Factors | | | | |
| 1 | 2 | Forming and Solving Equations | | | | |
| 1 | 3 | Right Angled Trigonometry | | | | |
| 1 | 4 | Mean from a Table | | | | |
| - 1 | | | | | | |

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Higher Interleaving Quiz

Branch 2 Quiz 2

- 1) Sarah invested £8500 for 5 years. It earned compound interest at 1.5% per annum. a) Sarah is trying to work out the total interest
- earned.
- $8500 \times 1.5 \times 5$

State what is wrong with Sarah's method. (2 marks)

b) Work out the total interest earned after 5 years. (2 marks)

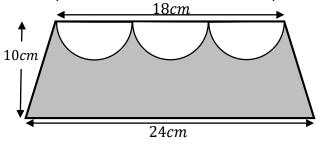
| | | _ |
|--|--|---|
| | | |

Answer:

$$5x + 4y = 7$$

 $2x + 4y = -2$ (3 marks)

3) The diagram shows a trapezium and three (4 marks) identical semicircles. Work out the area of the shaded region. Give your answer correct to 1 decimal place.



| 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

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

Answer:

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

Answer:

| 1 Compound Interest 2 Simultaneous Equation 3 Area Problem | Q | Topic | Σ | R | Α | G |
|--|---|-----------------------|---|---|---|---|
| | 1 | Compound Interest | | | | |
| 3 Area Problem | 2 | Simultaneous Equation | | | | |
| 5 7 6 7 6 7 6 7 7 7 7 | 3 | Area Problem | | | | |
| 4 Probability Tree | 4 | Probability Tree | | | | |

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Higher Interleaving Quiz

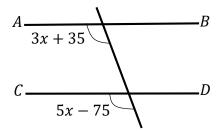
Branch 2 Quiz 3

(3 marks)

1) Mo invests £16,750 for 3 years at 1.4% per year compound interest. (3 marks) Work out the value of the investment at the end of 3 years.

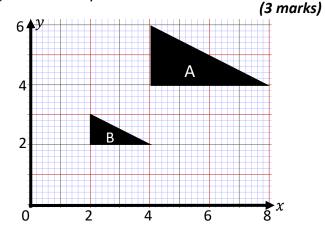
2) AB and CD are parallel lines. Work out the value of x.

Answer:



Answer:

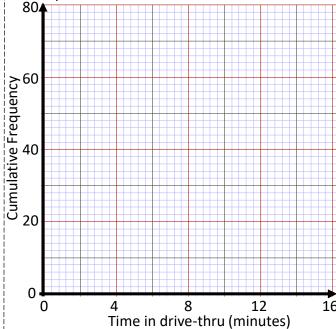
3) Describe fully the transformation of A onto B



4 The times that 50 customers waited in a drive-thru are given in the frequency table.

| Time (t) in mins | Frequency | |
|------------------|-----------|--|
| $0 < t \le 2$ | 3 | |
| $2 < t \le 4$ | 14 | |
| 4 < t ≤ 6 | 21 | |
| $6 < t \le 10$ | 8 | |
| $10 < t \le 16$ | 4 | |

a) Draw a cumulative frequency graph to represent this information. (3 marks)



b) Use your graph to find an estimate for the interquartile range. (3 marks)

Answer:

| Topic | Σ | R | Α | G |
|-------------------------------|---|---|---|---|
| Compound Interest | | | | |
| Forming and Solving Equations | | | | |
| Transformations | | | | |
| Cumulative Frequency | | | | |
| | Compound Interest Forming and Solving Equations Transformations | Compound Interest Forming and Solving Equations Transformations | Compound Interest Forming and Solving Equations Transformations | Compound Interest Forming and Solving Equations Transformations |

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