# Higher Interleaving Quiz 

Branch 2
Quizzes 1 to 3


Home Study Focus

| Q | Topic | $\sum$ | R | A | G |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | Product of Prime Factors |  |  |  |  |
| 2 | Forming and Solving Equations |  |  |  |  |
| 3 | Right Angled Trigonometry |  |  |  |  |
| 4 | Mean from a Table |  |  |  |  |

Home Study Completed

Quiz 2

| Q | Topic | $\sum$ | R | A | G |
| :---: | :--- | :--- | :--- | :--- | :--- |
| 1 | Compound Interest |  |  |  |  |
| 2 | Simultaneous Equation |  |  |  |  |
| 3 | Area Problem |  |  |  |  |
| 4 | Probability Tree |  |  |  |  |

Quiz 3

| Q | Topic | E | R | A | G |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | Compound Interest |  |  |  |  |
| 2 | Forming and Solving Equations |  |  |  |  |
| 3 | Transformations |  |  |  |  |
| 4 | Cumulative Frequency |  |  |  |  |

Home Study Completed

## Branch 2 Quiz 1

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

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


Answer:
3) Workout the length of $x$
(3 marks)


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## 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)
$\qquad$
$\qquad$
b) Work out the total interest earned after 5 years.
(2 marks)

Answer:
2) Solve

$$
\begin{aligned}
& 5 x+4 y=7 \\
& 2 x+4 y=-2
\end{aligned}
$$

(3 marks)
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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## Branch 2 Quiz 3

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.
$\qquad$
$\qquad$
$工$

Answer:
2) $A B$ and $C D$ are parallel lines.
(3 marks) Work out the value of $x$.


Answer:
3) Describe fully the transformation of $A$ onto $B$
(3 marks)


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

| Time $(t)$ <br> in mins | Frequency |  |  |
| :---: | :---: | :---: | :---: |
| $0<t \leq 2$ | 3 |  |  |
| $2<t \leq 4$ | 14 |  |  |
| $4<t \leq 6$ | 21 |  |  |
| $6<t \leq 10$ | 8 |  |  |
| $10<t \leq 16$ | 4 |  |  |


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

Answer:

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