For every question write the formula, then the values, then the working. **Give every answer its unit.**

1 The cost of n exercise books at $1{,}500$ shillings each is $C = 1500n$.

(a) Find C when $n = 4$ (1)

(b) Find C when $n = 10$ (1)

(c) Find C when $n = 25$ (1)

(3 marks)

2 The area of a rectangle is $A = lw$, where l is the length and w is the width in centimetres.

(a) Find A when $l = 8$ and $w = 5$ (1)

(b) Find A when $l = 12$ and $w = 3$ (1)

(c) Write down which letter is the subject of this formula (1)

(d) Write down what you must know before you can use it (1)

(4 marks)

3 An electrician charges $C = 25000n$ shillings for n hours of work.

(a) What does he charge for 6 hours? (1)

(b) What does he charge for 2 hours? (1)

(c) What does the number $25{,}000$ tell you about his charges? (2)

(4 marks)

4 The perimeter of a rectangle is $P = 2(l + w)$.

(a) Find P when $l = 12$ and $w = 4$ (1)

(b) Find P when $l = 9$ and $w = 6$ (1)

(c) Find P when $l = 7$ and $w = 7$ (1)

(d) In (c) the length and the width were equal. What shape was the rectangle? (1)

(4 marks)

5 The number of minutes in h hours is $m = 60h$.

(a) Find m when $h = 3$ (1)

(b) Find m when $h = 7$ (1)

(c) Find m when $h = 1.5$ (1)

(3 marks)

6 A boda charges $C = 500d + 1000$ shillings for a journey of d kilometres.

(a) Find the fare for a 4 km journey (1)

(b) Find the fare for a 10 km journey (1)

(c) What does the $1{,}000$ in the formula pay for? (2)

(4 marks)