1 A taxi charges $C = 900d + 2500$ shillings for a journey of d kilometres.

(a) *Work out* the fare for a 7 km journey (1)

(b) *Write down* what the $2{,}500$ pays for (1)

(c) A fare was $11{,}500$ shillings. *Find* the distance. (2)

(4 marks)

2 ***Show that*** $3(2x + 5) + 4x$ simplifies to $10x + 15$.

(2 marks)

3 ***Show that*** the solution of $5(x - 2) = 25$ is $x = 7$.

(2 marks)

4 Musa says that $4(x + 2)$ is the same as $4x + 2$.

(a) *Give a reason* why Musa is wrong (2)

(b) *Work out* the value of both expressions when $x = 3$ (1)

(c) *Write down* the correct expansion (1)

(5 marks)

5 A square has side s cm.

(a) *Write down* an expression for its perimeter (1)

(b) *Write down* an expression for its area (1)

(c) *Calculate* the area when $s = 9$ (1)

(d) *Explain* why the area is not 18 when $s = 9$ (2)

(5 marks)

6 Do what each instruction says.

(a) *Simplify fully* $12x + 18$ (2)

(b) *Simplify* $8x + 3 - 2x$ (1)

(c) *Simplify* $2(3x + 4)$ (1)

(4 marks)