Put every value in a bracket as you substitute, and give every answer its unit where it has one.

1 The area of a square of side s is $A = s^2$.

(a) Find A when $s = 3$ (1)

(b) Find A when $s = 8$ (1)

(c) Find A when $s = 12$ (1)

(d) Find A when $s = 1.5$ (1)

(4 marks)

2 A boda charges $C = 600d + 1500$ shillings for a journey of d kilometres.

(a) Find C when $d = 3$ (1)

(b) Find C when $d = 8$ (1)

(c) Find C when $d = 12$ (1)

(d) Which operation did you do first each time? (1)

(4 marks)

3 The volume of a cuboid is $V = lwh$.

(a) Find V when $l = 5$, $w = 3$ and $h = 2$ (1)

(b) Find V when $l = 10$, $w = 4$ and $h = 6$ (1)

(c) Find V when $l = 7$, $w = 7$ and $h = 7$ (1)

(d) What shape is the cuboid in part (c)? (1)

(4 marks)

4 The area of a triangle is $A = \dfrac{bh}{2}$, where b is the base and h is the height.

(a) Find A when $b = 6$ and $h = 4$ (1)

(b) Find A when $b = 9$ and $h = 10$ (1)

(c) Find A when $b = 7$ and $h = 4$ (1)

(3 marks)

5 The cost of hiring a hall is $C = 40000d + 150000$ shillings for d days.

(a) Find the cost for 2 days (1)

(b) Find the cost for 5 days (1)

(c) Find the cost for 1 day (1)

(3 marks)

6 A pupil used the formula $A = s^2$ with $s = 6$ and wrote $A = 12$.

(a) Work out the correct area (1)

(b) Write down what the pupil did instead of squaring (2)

(c) Draw a square of side 6 small squares and use it to explain why the area is not 12 (2)

(4 marks)