1.
Here is a list of numbers.

$$2, 5, 9, 11, 20, 32, 45$$

(a) From the list, write down a multiple of 5. 5 or 20 or 45 (1)

(b) From the list, write down a factor of 27. 9 (1)

(c) From the list, write down a prime number. 2 or 5 or 11 (1)

(d) From the list, write down two numbers which add together to make 34. 32 and 2 (1)

(e) From the list, write down two numbers with a difference of 25. 45 and 20 (1)

2.
Aaron went to the newsagents.
He bought a pack of sandwiches for £2.89, two packs of crisps at 62p each and a chocolate bar for 76p.
He paid with a ten pound note.
How much change should Aaron have been given?

$62 \times 2 = £1.24$

$2.89 + 1.24 + 0.76 = 4.89$

$10 - 4.89 = £5.11$ (2)

3.
(a) Simplify 3a – 2b + 6a + 5b

$9a + 3b$ (2)

(b) Simplify 3c × 5d

$15cd$ (1)

(c) Solve 6x – 1 = 41

+1   +1

$6x = 42$

÷6   ÷6

$x = 7$ (2)

4.

Barry is going to spin a spinner.
The spinner has five sections – blue, red, yellow, green and black.
The probabilities of landing on each section is given in the below table.

Section	Blue	Red	Yellow	Green	Black
Probability	0.23	0.3	0.19		0.09

(a) Work out the probability of landing on the green section.

$$0.23 + 0.3 + 0.19 + 0.09 = 0.81$$
$$1 - 0.81 = \underline{0.19}$$

(2)

(b) Barry is going to spin the spinner 50 times. How many times would you expect him to land on the red section?
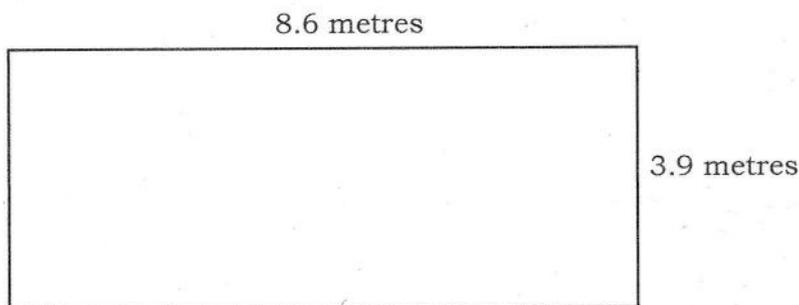
$$0.3 \times 50 = \underline{15}$$

(2)

5.

Claire is going to put a fence up around her garden.
The plan of the garden is pictured below.

8.6 metres

3.9 metres

Fencing costs £2.50 per 5 metres of fence.
How much will it cost Claire to put fence around her garden?

$$Perimeter = 8.6 + 8.6 + 3.9 + 3.9 = 25 \, m$$

$$25 \div 5 = 5$$

$$5 \times £2.50 = \underline{£12.50}$$

(4)