1. A theme park sells tickets online.

Each ticket costs £24

There is a £3 charge for buying tickets.

Which of these shows how to calculate the total cost, in pounds?

Tick **one**.

number of tickets × 3 + 24 ☐

number of tickets × 24 + 3 ☐

number of tickets + 3 × 24 ☐
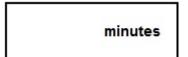
number of tickets + 24 × 3 ☐

1 mark

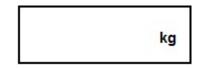**2.** Here is a rule for the time it takes to cook a chicken.

> **Cooking time = 20 minutes plus an extra**
>
> **40 minutes for each kilogram**

How many minutes will it take to cook a 3 kg chicken?

minutes

1 mark

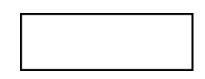What is the mass of a chicken that takes 100 minutes to cook?

kg

1 mark

3.

$n = 22$

What is $2n + 9$?

[ ]

1 mark

$2q + 4 = 100$

Work out the value of q.

$q =$ [ ]

1 mark

4.

j and k stand for two numbers.

Double j equals half of k.

Write numbers to complete the sentence below.

When j is [ ]   then k is [ ]

1 mark

5.

k stands for a number.

Complete the number sentences below.

One has been done for you.

5 more than k is $k + 5$

2 less than k is   _____

3 more than twice k is   _____

6 more than half of k is   _____

2 marks

Mark schemes

1. Second box only ticked correctly, as shown:

number of tickets × 3 + 24   ☐

number of tickets × 24 + 3   ✓

number of tickets + 3 × 24   ☐

number of tickets + 24 × 3   ☐

Accept alternative unambiguous positive indication of the correct answer, e.g. Y.

[1]

2. (a)   140

          The answer is a time interval

                                                           1

     (b)   2

                                                           1

[2]

3. (a)   53

                                                           1

     (b)   48

                                                           1

[2]

4. Two numbers where the value of k is four times the value of j, eg

When j is   **5**   When k is   **20**

OR

When j is   **11**   When k is   **44**

[1]

5. Award **TWO** marks for all three expressions correct, eg

$k - 2$

$2k + 3$

$6 + \dfrac{1}{2}k$

Accept equivalent or unconventional notation, eg

*$k + k + 3$ **OR** $3 + 2 \times k$*

*$\dfrac{k}{2} + 6$ **OR** $6 + k \div 2$*

If the answer is incorrect, award **ONE** mark for two expressions correct.

Up to 2

[2]