MATHS

YEAR 4
NUMBER: MULTIPLICATION AND DIVISION

NC. Objective: To multiply two-digit and three-digit numbers by a one-digit number
using formal written layout and solve integer scaling problems.

1. While walking in the palace gardens, the servants counted the flowers and wrote this in the palace records:

   8 rows of flowers
   9 flowers in each row
   72 flowers altogether

   a) Write the four number sentences in this fact family. (Use the numbers 8, 9, 72)
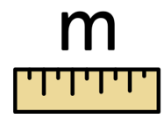
   - ___ × ___ = ___

   - ___ × ___ = ___

   - ___ ÷ ___ = ___

   - ___ ÷ ___ = ___

   b) Explain how multiplication and division are connected using this example.

2. Hermione walked 36 metres each minute.

   After 7 minutes, how far had she walked?

   $$\begin{array}{r} 3\ 6 \\ \times\ \ 7 \\ \hline \end{array}$$

3. The shepherd stacked 234 logs on each of the 4 wagons.

   Calculate the number of logs he stacked in total.

   $$\begin{array}{r} 2\ 3\ 4 \\ \times\ \ \ \ 4 \\ \hline \end{array}$$

4. The palace needs 8 times as many lanterns as the number of tables.

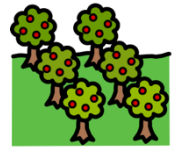   If there are 42 tables, how many lanterns are needed?

5. Camillo travelled from the palace to the winter market.

   He carried 126 apples in each bag.
   He took 5 bags on his first trip.
   On the second trip, he took 3 times as many apples as on the first.

   a) How many apples did he take on his first trip?
   b) How many apples did he take on the second trip?
   c) How many apples did he take altogether?

6. Paulina gave a servant some instructions for the unveiling of Hermione's statue.
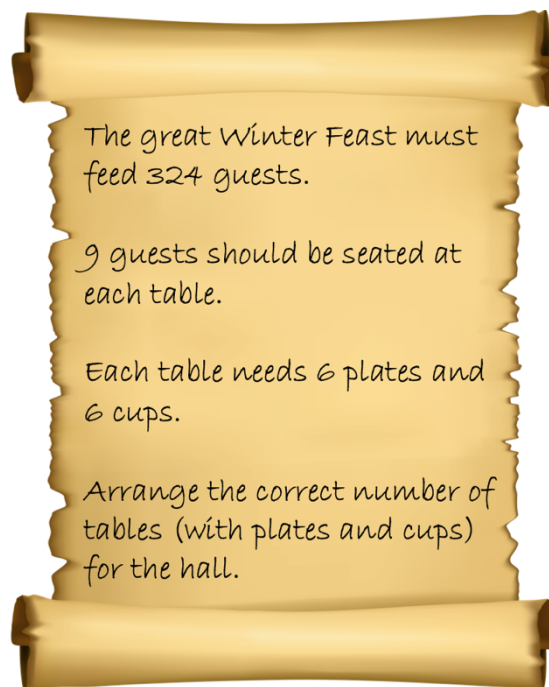
   "The unveiling will be watched by 288 guests. Each row of seats must hold 8 guests. Each row needs 10 lanterns to light the hall."

   Work out how many rows of seats are needed and how many lanterns are required.

   CHALLENGE – Plan the feast!

   One of the servants found a note left by King Leontes:

   The great Winter Feast must feed 324 guests.

   9 guests should be seated at each table.

   Each table needs 6 plates and 6 cups.

   Arrange the correct number of tables (with plates and cups) for the hall.

   Help the servant set up the feast by solving the problem.