MATHS

YEAR 5
NUMBER: MULTIPLICATION AND DIVISION

NC. Objective: To multiply and divide numbers up to 4-digits by 1-digit and establish whether a number up to 100 is a prime.

1. King Leontes orders 2,432 barrels of ale for each feast.

   If there are 6 feasts due to occur, how many barrels should he order?

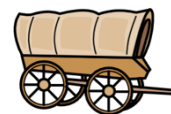 $$\begin{array}{r} 2\,4\,3\,2 \\ \times \qquad 6 \\ \hline \end{array}$$

2. During the feast, 3,696 cakes were shared equally between 8 tables.

   Calculate how many cakes were on each table.
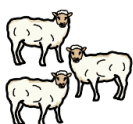
   $$8\,|\,\overline{3\,6\,9\,6}$$

3. Over 3 days, the shepherd stacked 3,764 logs onto 4 wagons.

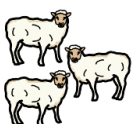   How many logs were there on each wagon?

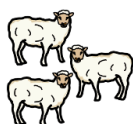4. The shepherd organises his sheep in groups – called flocks.

   Which of these numbers could be the size of a prime-numbered flock of sheep? Explain why.
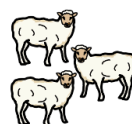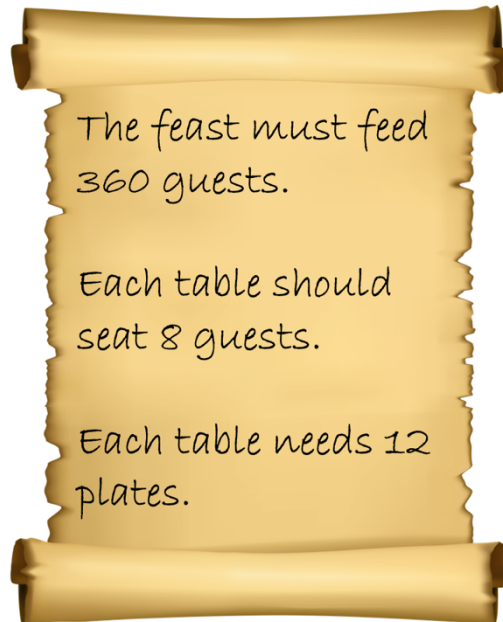
   29   33   37   42

5. Polixenes collected 3,960 coins and shared them equally between 9 guards.

   How many coins did each guard receive?

6. Instructions were left for the palace staff in preparation for the Winter Feast:

The feast must feed 360 guests.

Each table should seat 8 guests.

Each table needs 12 plates.

    a) How many tables are needed?
    b) How many plates are needed?
    c) Is the required number of tables a prime number? Explain how you know.

7. Hermione ordered 2,340 stones for the palace garden. They were shared equally between 6 paths.

Later, each path needed 4 times as many stones for decoration.

    a) How many stones were used on each path at first?
    b) How many stones were needed for each path in total?
    c) How many stones were needed altogether for the garden?