

QUEENSMEAD PRIMARY ACADEMY

Helping your<br>child at home



Multiplication

## MULTIPLICATION

Children are taught to understand multiplication as repeated addition and scaling. It can also describe an array.

| $2 \times 4=$ <br> Each child has two eyes. How many eyes do four children have? | Again a picture can be useful. |
| :---: | :---: |
| $5 \times 3=$ <br> There are 5 cakes in a pack. How many cakes in 3 packs? <br> -**** $5$ <br> $+5$ <br> $+5$ | Dots or tally marks are often drawn in groups. This shows 3 groups of 5 . |
| $4 \times 3=$ <br> A chew costs 4 p. How much do 3 chews cost? <br>  <br> or | Drawing an array (3 rows of 4 or 3 columns of 4) gives children an image of the answer. It also helps develop the understanding that $4 \times 3$ is the same as $3 \times 4$. |



There are 4 cats. Each cat has 6 kittens. How many kittens are there altogether?


## 6×124:

book were sold Each book cost

A cat is 72 cm long. A tiger is 34 times longer. How long is the tiger?

Children could count on in equal steps, recording jump on an empty number line. This shows 4 jumps of 6 .

When numbers get bigger, it is inefficient to do lots of small jumps. Split 13 into pans (10 and 3). This gives you two jumps $10 \times 7$ and $3 \times 7$ ).

This is called the grid method. 124 is split into (100, 20 and 4) multiplied by 6. The three answers are then together
for 'long multiplication'. Again split up the numbers and multiply the mows then add those two answers together.

