## Recall of facts

Recall and use multiplication and division facts for $3 \mathrm{x}, 4 \mathrm{x}$ and $8 x$ tables.

1. Practice counting in order forwards and backwards
2. Recall the multiplication and division facts in order
3. Recall the facts in a random order and link them to fractions

Calculate using what you already know...

If 1 know $7 \times 3=21$ then
$8 \times 3=24$ because it is one more group of 3 and
$6 \times 3=18$ because it is
1 less group of 3

$$
\curvearrowleft \cap
$$

1x $2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10 \mathrm{x}$

| -3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | ひひ

Multiplication and division can be represented in different ways.. These structures show the relationship between multiplication and division.


Number Lines


Prove it
Multiplying
is the inverse (opposite) of dividing

If I know one fact, what else can I derive?
$\begin{array}{ll}\text { If I know... } & 4 \times 8=32 \\ \text { Then I also know } \quad 8 \times 4=32 \\ \text { And } \quad 32 \div 4=8 & \text { and } 32 \div 8=4\end{array}$

## Division as grouping

$$
30 \div 6
$$

Put 30 into groups of 6
How many in each group?

## Finding fractions of a given quantity

We can find a fraction of an amount by following these simple steps.
Find $3 / 4$ of 28

- Draw a bar model.
- Look at the denominator and divide the bar into equal parts. 4 - Calculate the value of each part $28 \div 4=7$
- Look at the numerator and shade this number of parts. 3 parts
- Find the total of all the coloured parts. $3 \times 7=21$



## Use the correct vocabulary

 multiple, multiply, array, multiplication tables, product, twice, double, repeated addition equal groups of, divide, divided by, divided into, quotient remainder, half, quarter, third, partition, inverse

## Problems

Sally has baked some buns. She counted her buns in 4's and had 3 left over. She counted them in fives and had four left. How many buns has Sally got?


