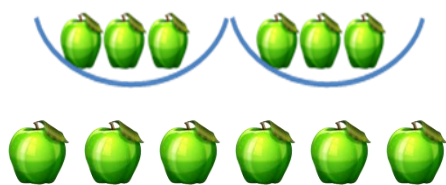# Year 1

Statutory Guidance

Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
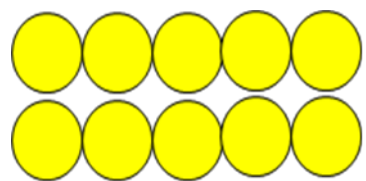
Possible representations

e.g. $2 \times 3 =$

There are two bowls with three apples in each. How many apples are there altogether?

Non- Statutory guidance

They make connections between arrays, number patterns, and counting in twos, fives and tens.
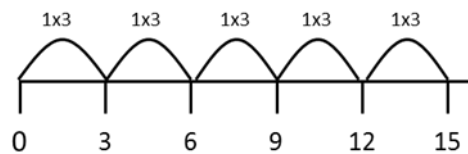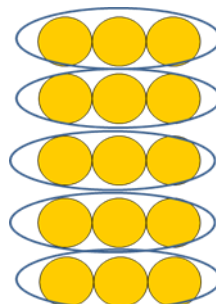
Year 2

Statutory Guidance

Solve problems involving multiplication using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in contexts.
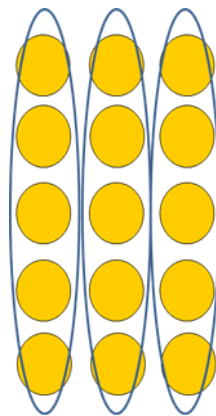
Possible representations

e.g. $5 \times 3 =$

$5 \times 3 =$

$3 \times 5 =$

Multiplication facts include: 2,5 and 10

Year 3

Statutory Guidance

Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

e.g. $24 \times 6 =$

$$
\begin{array}{r}
2\,4 \\
\times\ \ 6 \\
\hline
1\,4\,4 \\
{}_{2}
\end{array}
$$

Multiplication facts include: 2,3,4,5,8 and 10

Year 4

Statutory Guidance

Multiply two-digit and three-digit numbers by a one digit number using the formal written layout.

e.g. $347 \times 7 =$

$$
\begin{array}{r}
3\,4\,7 \\
\times\ \ \ \ 7 \\
\hline
2\,4\,2\,9 \\
{}_{3}\ \ {}_{4}
\end{array}
$$

Multiplication facts up to 12×12

Year 5

Statutory Guidance

Multiply numbers up to 4 digits by a one – or two-digit number using the formal written method,

e.g. $2741 \times 6 =$

$$
\begin{array}{r}
2\,7\,4\,1 \\
\times\ \ \ \ \ 6 \\
\hline
1\,6\,4\,4\,6 \\
{}_{4}\ \ {}_{2}
\end{array}
$$

including long multiplication for two-digit numbers

$$
\begin{array}{r}
2\,4 \\
\times 1\,6 \\
\hline
1\,4\,4 \\
{}_{2} \\
2\,4\,0 \\
\hline
3\,8\,4
\end{array}
$$

Year 6

Statutory Guidance

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

e.g. $2741 \times 66 =$

$$
\begin{array}{r}
{}^{4}\ \ {}^{2} \\
2\,7\,4\,1 \\
\times\ \ \ \ 6\,6 \\
\hline
1\,6\,4\,4\,6 \\
1\,6\,4\,4\,6\,0 \\
\hline
1\,8\,0\,9\,0\,6 \\
{}_{1}\ \ \ \ \ {}_{1}
\end{array}
$$

From Fractions section: Multiply one-digit numbers with up to two decimal places by whole numbers

$$
\begin{array}{r}
2\,.\,4\,1 \\
\times\ \ \ \ \ 6 \\
\hline
1\,4\,.\,4\,6 \\
{}_{2}
\end{array}
$$