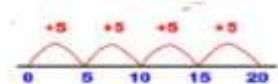


Multiplication

Year One

Count groups of objects to multiply – repeated addition. Use arrays to represent multiplication.

Use repeated addition on a number line to multiply single digit numbers.



$$4 \times 5 = 20$$

Use arrays to multiply single digit numbers together.

$$5 \times 3 = 15$$



$$6 \times 4 = 24$$



Year Two

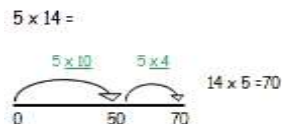
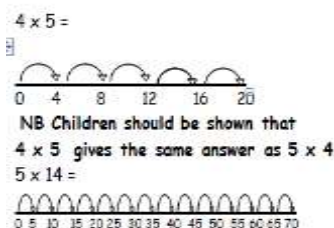
Multiply 2-digit numbers by a single digit number.

Use arrays to multiply a 2-digit number by a single digit number.

$$12 \times 5 = 60$$



Use repeated addition on a number line to multiply.



Year Three

Multiply two 2-digit numbers together. Multiply up to 3-digits by a two-digit whole number and multiply numbers with up to two decimal places.

Use the grid method to multiply two 2-digit numbers together.

$$64 \times 25$$

x	60	4
20	1200	80
5	300	20

$$1280 + 320 = 1600$$

Use the grid method to multiply decimal with up to 2 decimal places.

$$18.7 \times 5$$

x	10	8	.	0.7
5	50	40	.	3.5

$$50 + 40 + 3.5 = 93.5$$

Year Four

Multiply numbers up to 3-digits by a two-digit whole number and multiply numbers with up to two decimal places.

Use a formal method to multiply two or three digit numbers by a single digit

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \\ 1 \end{array}$$

Use the grid method to multiply a three digit number by a 2-digit number.

$$143 \times 27$$

x	100	30	3
20	2000	600	60
7	700	210	21

$$2660 + 931 = 3591$$

Use the grid method to multiply decimal with up to 2 decimal places.

$$14.53 \times 6$$

x	10	4	.	0.5	0.03
6	60	24	.	3	0.18

$$60 + 24 + 3 + 0.18 = 87.18$$

Year Five

Multiply numbers up to four digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers.

Multiply numbers up to four digits by a one or two digit number.

$$\begin{array}{r} 1243 \\ \times 4 \\ \hline 4872 \\ 1 \quad 1 \end{array}$$

Use long multiplication up to 4-digit numbers by a two digit number.

$$\begin{array}{r} 1234 \\ \times 16 \\ \hline 7404 \\ 12340 \\ \hline 19744 \end{array}$$

(1234 x 6)
(1234 x 10)

Year Six

Multiply numbers up to four digits by a two-digit whole number and multiply numbers with up to two decimal places.

Use long multiplication up to 4-digit numbers by a two digit number.

$$\begin{array}{r} 1234 \\ \times 16 \\ \hline 7404 \\ 12340 \\ \hline 19744 \end{array}$$

(1234 x 6)
(1234 x 10)

Use long multiplication to multiply decimal with up to 2 decimal places.

$$\begin{array}{r} 7.25 \\ \times 1.52 \\ \hline 1450 \\ 36250 \\ 72500 \\ \hline 11.0200 \end{array}$$

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