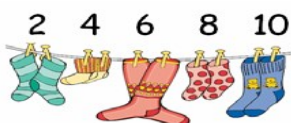


# x Multiplication x

## Foundation Stage, Year 1, Year 2, Year 3

Counting in equal steps: (2s, 3s, 4s, 5s, 6s and 10s)



### Repeated addition



$$2 + 2 + 2 + 2 + 2 = 10$$

$$2 \times 5 = 10$$

2 multiplied by 5  
5 pairs



$$10p + 10p + 10p + 10p + 10p = 50p$$

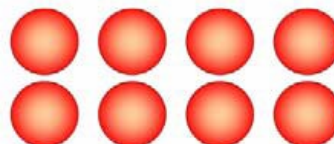
$$10p \times 5 = 50p$$

5 jumps of 10



### Describing an array

Use 'Multiplication array' ITP to help



$$4 \times 2 = 8$$

$$2 \times 4 = 8$$

## Level 2 & 3

### Partitioning

$$43 \times 6 =$$

$$\begin{array}{r} 43 \\ \swarrow \searrow \\ 40 + 3 \\ \downarrow \quad \downarrow \quad \times 6 \\ 240 + 18 = 258 \end{array}$$

$$40 \times 6 = 240$$

$$3 \times 6 = 18$$

$$240 + 18 = 258$$

Use Base 10 and Cuisenaire to help

### Grid method

$$38 \times 7 =$$

x	30	8	
7	210	56	210 + 56 = 266

$$284 \times 3 =$$

x	200	80	4	
3	600	240	12	600 + 240 + 12 = 852

## Level 3, 4 & 5

### Short multiplication

$$\begin{array}{r} 38 \times 7 \\ \hline 266 \end{array} \quad \begin{array}{r} 25.6 \times 8 \\ \hline 204.8 \end{array}$$

### Grid method

$$56 \times 27$$

x	50	6	
20	1000	120	1120 + 120 = 1240
7	350	42	1240 + 42 = 1512

### Long multiplication

$$56 \times 27$$

$$\begin{array}{r} 56 \times 27 \\ \hline 392 \quad (56 \times 7) \\ 1120 \quad (56 \times 20) \\ \hline 1512 \end{array}$$

