Multiplication:

Multiplying by a single digit whole number:

453 x 7

Always write the number with the most digits first.
Don't forget to add the numbers on the doorstep.

$$\begin{array}{r} 453 \\ \times 7 \\ \hline 3171 \\ {\scriptstyle 3\ 2} \end{array}$$

Check your answers using rounding:
Eg 500 x 7 = 3500

Multiplying by a double digit whole number:

345 x 73

Always write the number with the most digits first.
Don't forget to add the numbers on the doorstep.
Don't forget to add placeholders!

$$\begin{array}{r} 345 \\ \times 73 \\ \hline 1035 \\ {\scriptstyle 1\ 1} \\ 24150 \\ {\scriptstyle 3\ 3} \\ \hline 25185 \end{array}$$

(345 x 3)

(345 x 70)

Check your answers using rounding:
Eg 300 x 70 = 21000

Multiplying by a decimal:

453 x 0.7

Always write the number with the most digits first.
Just multiply in exactly the same way as with whole numbers – just drop the decimal point down into your answer.
Don't forget to add the numbers on the doorstep.

$$\begin{array}{r} 453 \\ \times 0.7 \\ \hline 317.1 \\ {\scriptstyle 3\ 2} \end{array}$$

Never add placeholders when writing the calculation.

Eg Don't write 0.7 as 0.70

3.45 x 73

$$\begin{array}{r} 3.45 \\ \times 73 \\ \hline 10.35 \\ {\scriptstyle 1\ 1} \\ 241.50 \\ {\scriptstyle 3\ 3} \\ \hline 251.85 \end{array}$$

Multiplying multiples of ten:

40 x 50

Use known number facts!

x10 (4 x 5 = 20) x10

40x 5 = 200 (x10) (x10)

40x50 = 2000

Multiplying by 10, 100, 1000:
Use a place value chart!
Move one place for each zero.

0.345 x 1000

			0	.	3	4	5
0	3	4	5	.			

Remember:
Your answer should include the same digits in the same order.
Answers can only start with a zero if the zero is followed by a decimal point.

0.345 x 1000 = 345

Remember: Any number multiplied by zero equals zero

2357456 x 0 = 0