Activity 1

	T	O
	4	3
×		3

	T	O
	3	6
×		4

	T	O
	7	4
×		5

Each basket holds 83 apples.
How many apples are there?

Each horse eats 37 carrots a day. How many do they eat altogether?

	T	O	

	T	O	

Activity 1 answers

If you would like to keep practising this method complete these questions before moving on with the rest of the lesson
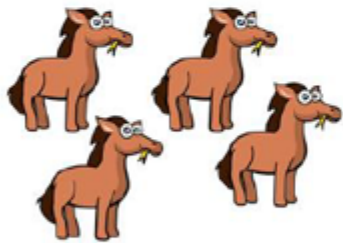
	T	O
	4	3
×		3
1	2	9

	T	O
	3	6
×		4
1	4	4

	T	O
	7	4
×		5
3	7	0

Each basket holds 83 apples.
How many apples are there?

Each horse eats 37 carrots a day. How many do they eat altogether?

	T	O	
	3	7	
X		4	
	2	8	
1	6	0	
1	8	8	

	T	O		
	8	3		
X	1	4		
3	3	2		

Activity 2

Alex completes the calculation:

$$43 \times 2$$

Can you spot her mistake?

	T	O
	4	3
×		2
		6
+		8
	1	4

Teddy completes the same calculation as Alex.
Can you spot and explain his mistake?

	T	O
	4	3
×		2
8	0	6

Always, sometimes, never

- When multiplying a two-digit number by a one-digit number, the product has 3 digits.

- When multiplying a two-digit number by 8 the product is odd.

- When multiplying a two-digit number by 7 you need to exchange.

Prove it.

Activity 2 answers

To ensure you are truly confident with this method have a go at these questions.

Alex completes the calculation:

$$43 \times 2$$

Can you spot her mistake?

	T	O
	4	3
×		2
		6
+		8
	1	4

Alex said 2 x 4 rather than 2 x 40

Teddy completes the same calculation as Alex.

Can you spot and explain his mistake?

	T	O
	4	3
×		2
8	0	6

Teddy correctly calculated 2 x 40, but he but the 8 in the 100s rather than in the 10s

Always, sometimes, never

- When multiplying a two-digit number by a one-digit number, the product has 3 digits.

- When multiplying a two-digit number by 8 the product is odd.

- When multiplying a two-digit number by 7 you need to exchange.

Prove it.

Sometimes: 12 × 2 has only two-digits; 23 × 5 has three digits.

Never: all multiples of 8 are even.

Sometimes: most two-digit numbers need exchanging, but not 10 or 11

Activity 3 Find the missing numbers

1

a.

$$
\begin{array}{r}
2\ 4 \\
\times\ \ \square \\
\hline
\square\ 9\ 2
\end{array}
$$

b.

$$
\begin{array}{r}
4\ 2 \\
\times\ \ \square \\
\hline
\square\ 6\ 8
\end{array}
$$

2

a.

$$
\begin{array}{r}
8\ \square \\
\times\ \ 4 \\
\hline
3\ \square\ \square
\end{array}
$$

b.

$$
\begin{array}{r}
\square\ 7 \\
\times\ \ \square \\
\hline
\square\ 8\ 5
\end{array}
$$

3

a.

$$
\begin{array}{r}
7\ \square \\
\times\ \ 6 \\
\hline
4\ \square\ \square
\end{array}
$$

b.

$$
\begin{array}{r}
\square\ 9 \\
\times\ \ \square \\
\hline
2\ \square\ 7
\end{array}
$$

4

a.

$$
\begin{array}{r}
3\ \square \\
\times\ \ 8 \\
\hline
\square\ 7\ 2
\end{array}
$$

b.

$$
\begin{array}{r}
3\ 9 \\
\times\ \ \square \\
\hline
1\ \square\ 5
\end{array}
$$

Activity 3 Find the missing numbers

1

a.

```
      2   4
  x          8
  _____
  1   9   2
```

b.

```
      4   2
  x          4
  _____
  1   6   8
```

2

a.

```
      3   4
  x          8
  _____
  2   7   2
```

b.

```
      3   9
  x          5
  _____
  1   9   5
```

3

a.

```
      7   1
  x          6
  _____
  4   2   6
```

b.

```
      7   9
  x          3
  _____
  2   3   7
```

More than one possible answer!

4

a.

```
      8   4
  x          4
  _____
  3   3   6
```

b.

```
      5   7
  x          5
  _____
  2   8   5
```

More than one possible answer!