

Fast Five

1. $362 \times 24 =$

2. $6002 \times 100 =$

3. 140 divided by 7 =

4. $361 - 72 =$

5. $2348 + 338 =$

Answers

1. $362 \times 24 = 8688$

2. $6002 \times 100 = 600200$

3. 140 divided by 7 = 20

4. $361 - 72 = 289$

5. $2348 + 338 = 2686$

Can I multiply a 4 digit number by a 2 digit number ?

Today we will be using what we learnt yesterday, and building on that knowledge to look at multiplying 4 digit numbers.

Look at the next worked example to remind yourself of the steps.

$$247 \times 32$$

$$\begin{array}{r} 247 \\ \times \quad 32 \\ \hline 494 \\ \hline 7410 \\ \hline 7904 \end{array}$$

Multiply the top numbers by the bottom unit originally e.g. 7×2 , 4×2 , 2×2 .

Then on the next line down place a 0 as a place holder for multiplying by 10.

Following this, multiply the top numbers by the bottom tens column e.g. 7×3 , 4×3 , 2×3 .

Finally, add the two numbers together.

$$247 \times 32$$

2 4 7

x 3 2

4 9 4

7 4 1 0

7 9 0 4

Why is the place holder so important?

What does it represent?

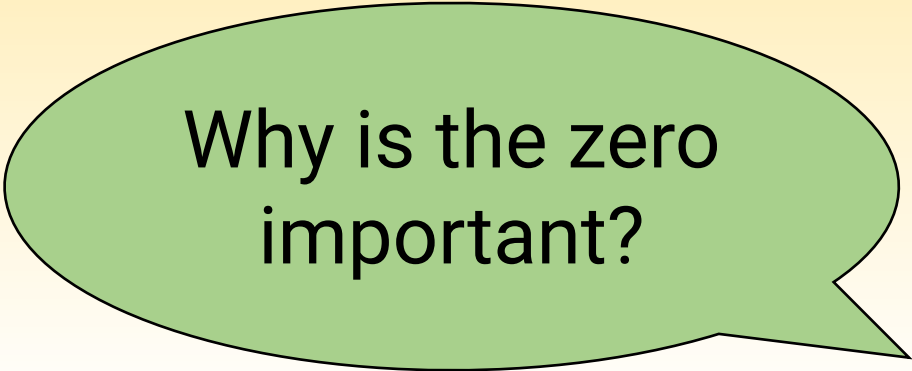
What would happen without it?

Zero place holder

We use the placeholder of 0 because we are multiplying by a tens number. It is important, when setting out the question, that we place the zero immediately, so it is not forgotten.

Try this one:

$$745 \times 24$$



Why is the zero
important?

Answer

$$\begin{array}{r} 745 \\ \underline{24x} \end{array}$$

$$2980$$

1 2

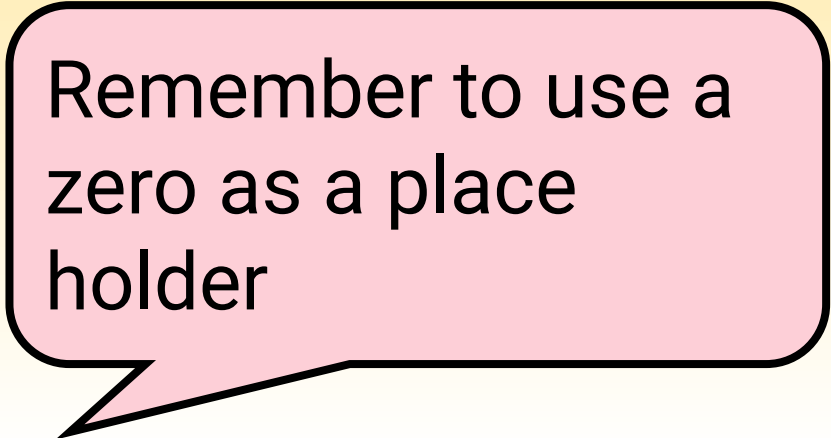
$$\underline{14900} +$$

1

$$17880$$

Try this one:

$$214 \times 45$$



Remember to use a
zero as a place
holder

Answer

$$\begin{array}{r} 214 \\ \underline{45x} \end{array}$$

$$1070$$

2

$$\begin{array}{r} 8560 + \\ \hline \end{array}$$

1

$$9630$$

1

Multiplying a 4 digit number by a 2 digit number

You follow the same process as multiplying a digit number. You just have to remember to multiply the thousands column as well.

Try completing 1745×44

Answer

1 7 4 5

4 4 x

6 9 8 0

2 1 2

6 9 8 0 0 +

2 1 2

7 6 7 8 0

1 1