## Week 7, Day 4

## Use grid and short multiplication to multiply 4-digit by 1-digit numbers.

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders. They come from our PowerPoint slides.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders

Use grid and short multiplication to multiply 4-digit by 1-digit numbers


## Learning Reminders

Use grid and short multiplication to multiply 4-digit by 1-digit numbers
$6 \times 4872$

Let's try using short multiplication.

First, set out neatly in columns, leaving a space for any digits carried between columns.

Second, starting on the right, multiply each digit of 4872 in turn. Remember to add on any digits carried.

Estimate 30,000.

4872
$\times \quad 6$
541
29232

## Practice Sheet Mild <br> Grid multiplication

Estimate which of these multiplications will give answers:

- less than 1000.
- between 1000 and 3000 .
- between 3000 and 5000 .
- between 5000 and 7000 .
- greater than 7000.

1. $3 \times 642$
2. $5 \times 527$
3. $6 \times 253$
4. $3 \times 275$
5. $8 \times 524$
6. $3 \times 314$
7. $7 \times 823$
8. $9 \times 851$

Now use grid multiplication to work out the answers!

## Challenge

Which of these two multiplications do you think will have the biggest answer? Check to see if you are right.
9. $3 \times 5364$
10. $6 \times 2348$

## Practice Sheet Hot <br> Short multiplication

Estimate first, then use short multiplication to find the exact answers.

1. $4 \times 6234$
2. $7 \times 5382$
3. $8 \times 4734$
4. $5 \times 7856$
5. $6 \times 8431$
6. $9 \times 5408$
7. $3 \times 8796$
8. $7 \times 6857$

## Challenge

Write a different multiplication with an answer between 20,000 and 30,000
Write a different multiplication with an answer between 50,000 and 60,000.

