# Week 5, Day 1 <br> Short multiplication 

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



## Learning Reminders

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


* We've tended to use this formal written method, **but carrying digits below the line.


## Learning Reminders


*In class we have tended to use the column method.
** We have also carried below the line (doorstep).

## Practice Sheet Mild <br> Money multiplication practice

Use a written method to calculate the answers, but watch out for a few where you could use a mental method instead.

1. $3 \times £ 5.28$
2. $5 \times £ 2.99$
3. $4 \times £ 5.79$
4. $4 \times £ 4.16$
5. $3 \times £ 2.63$
6. $8 \times £ 4.43$
7. $7 \times £ 5.87$
8. $3 \times £ 25.01$
9. $6 \times £ 46.14$
10. $4 \times £ 25.42$
11. $8 \times £ 63.54$
12. $5 \times £ 32.45$
13. $4 \times £ 11.11$
14. $8 \times £ 52.69$
15. $7 \times £ 86.74$

On the more challenging ones, estimate first (round and adjust).

## Challenge

Which will have a larger total? $£ 34.34 \times 4$ or $£ 43.43 \times 3$
Can you say before you work them out to check?
Were you correct?

## Practice Sheet Hot Multiplying amounts of money

## Choose a number from 3 to 9 .

Choose one of these prices to multiply by your chosen single-digit number.

$$
£ 45.19 £ 26.47 \quad £ 53.28 \quad £ 42.75
$$

You are aiming for an answer as close to $£ 200$ as possible! Repeat, with a different single-digit number each time.

Which answer was closest to $£ 200$ ?

## Practice Sheet Answers

## Money multiplication practice (mild)

1. $3 \times £ 5.28=£ 15.84$
2. $5 \times £ 2.99=£ 14.95$
3. $4 \times £ 5.79=£ 23.16$
4. $4 \times £ 4.16=£ 16.64$
5. $\quad 3 \times £ 2.63=£ 7.89$
6. $8 \times £ 4.43=£ 35.44$
7. $7 \times £ 5.87=£ 41.09$
8. $3 \times £ 25.01=£ 75.03$
9. $6 \times £ 46.14=£ 276.84$
10. $4 \times £ 25.42=£ 101.68$
11. $8 \times £ 63.54=£ 508.32$
12. $5 \times £ 32.45=£ 162.25$
13. $4 \times £ 11.11=£ 44.44$
14. $8 \times £ 52.69=£ 421.52$
15. $7 \times £ 86.74=£ 607.18$

## Challenge

$4 \times £ 34.34=£ 137.36$ and $3 \times £ 43.43=£ 130.29$ so the first is larger.

Multiplying amounts of money (hot)
e.g. $8 \times £ 26.47=£ 211.76$

Can you get an answer closer to $£ 200$ ?

## A Bit Stuck? <br> Aim for 2000

## Work in pairs, but record your work on your own sheet

Things you will need:

- 100s, 10s and is place value cards
- A pencil


## What to do:

- Spread out the 100, 200, 300, 400, 500 and 600 cards.

Spread out the 10, 20, 30, 40, 50 and 60 cards. Spread out the 1, 2, 3, 4, 5 and 6 cards.

- Choose one card from each group to make a 3-digit number.
- Use the grid method to multiply this by any number you choose from 2 to 9.

You are aiming to get an answer near 2000.

- Repeat.
- How close to 2000 can you get?


S-t-r-e-t-c-h:
Use the grid method to work out $5 \times 2346$ and $4 \times 4271$.

## Learning outcomes:

- I can use the grid method to multiply 3-digit numbers by 1 -digit numbers.
- I am beginning to estimate the answers.
- I am beginning to multiply 4-digit numbers by 1 -digit numbers.




