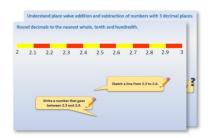
Year 5: Week 3, Day 3

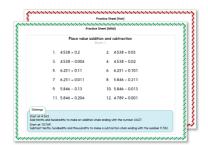
Short multiplication (money)

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

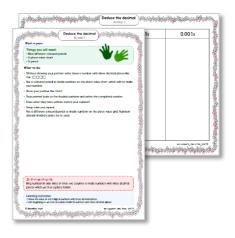
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

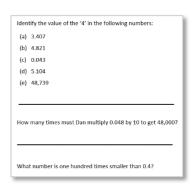


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

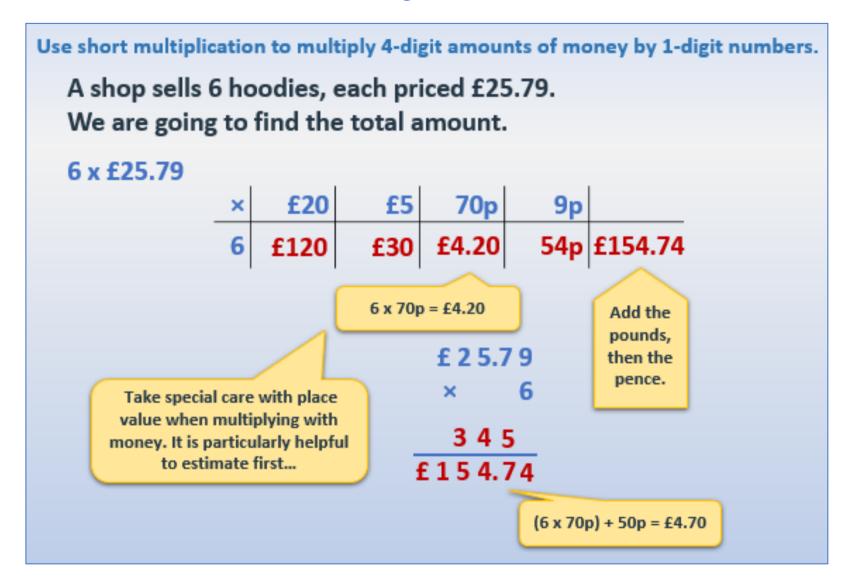


4. Have I mastered the topic? A few questions to Check your understanding.

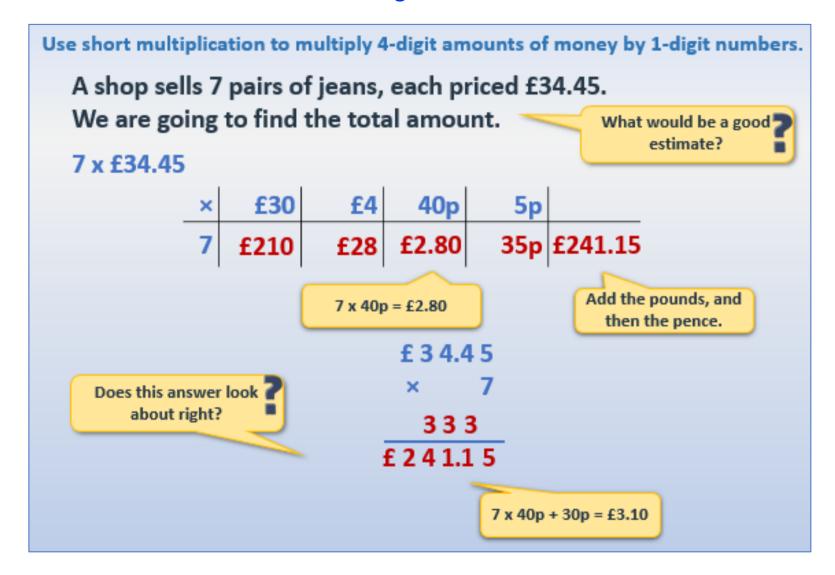
Fold the page to hide the answers!



Learning Reminders



Learning Reminders



Practice Sheet Mild Multiplying money

1. Which of these multiplications do you think will have the greatest answer?

3 x £4.28

5 x £5.17

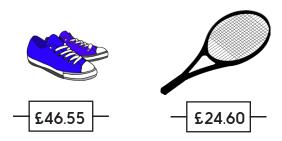
4 x £8.32

6 x £2.51

Calculate each to check.

- 2. A shop sells the following items. Calculate how much they take for each item:
 - 4 beanies at £7.24 each
 - 6 water bottles at £3.65 each
 - 8 wristbands at £2.78 each

Practice Sheet Hot Multiplying money









- 1. Which of these would cost more than £200? Estimate each then calculate the costs.
 - a) 5 pairs of trainers
 - b) 4 tracksuits
 - c) 7 footballs
 - d) 8 sports bags
 - e) 7 tennis rackets
- 2. Which do you think would cost more? Estimate each then calculate the costs.
 - a) 6 pairs of trainers or 7 tracksuits?
 - b) 9 sports bags or 6 footballs?
 - c) 6 tennis rackets, 4 tracksuits or 3 pairs of trainers?

Challenge

Five children each buy a sports bag, a tennis racket and pair of trainers. How much do they spend altogether?

Practice Sheet Answers

Multiplying money (mild)

Which of these multiplications do you think will have the greatest answer?

4 x £8.32

Rounding each amount to the nearest pound helps children to see which will have the greatest answer

 $3 \times £4.28 = £12.84$

 $5 \times £5.17 = £25.85$

 $4 \times £8.32 = £33.28$

 $6 \times £2.51 = £15.06$

A shop sells the following items. Calculate how much they take for each item:

4 beanies at £7.24 each £28.96

6 water bottles at £3.65 each £21.90

8 wristbands at £2.78 each £22.24

Multiplying money (hot)

- 1. a) £232.75
 - b) £155
 - c) £221.62
 - d) £155.92
 - e) £172.20
- 2. a) 6 pairs of trainers = £279.30 7 tracksuits = £271.25
 - b) 9 sports bags = £175.41 6 footballs = £189.96
 - c) 6 tennis rackets = £147.60 $\underline{4}$ tracksuits = £155 3 pairs of trainers = £139.65

Challenge

Sports bag + tennis racket + trainers = £19.49 + £24.60 + £46.55 = £90.64

If 5 children all buy the same 3 items total cost = £453.20

A Bit Stuck?

Multiplication splits (money)

Try this activity with a partner, but record your calculations on your own sheet.

What to do:

• Use the grid method to work out the answers to these multiplications.

3 x £3.25

×	£3	20p	5p	
3				

Things you will need:

A pencil



5 x £4.23

×	£4	20p	3p	
5				

4 x £6.35

×	£6	30p	5р	
4				

• Next choose at least two multiplications and draw your own grids to keep track of your steps.

7 x £1.32

6 x £2.17

8 x £1.31

5 x £4.18

S-t-r-e-t-c-h:

Which of these multiplications will have the biggest answer? Which will have the smallest answer?

8 x £2.36

6 x £5.21

2 x £6.33

Learning outcomes:

- I can use the grid method to multiply 3-digit amounts of money by 1-digit numbers.
- · I am beginning to estimate the answers.

 $\hbox{$\>$}\hbox{$\>$

Check your understanding Questions

A shop sells 6 boxes of chocolates at £12.79 a box and 8 chocolate bunnies at £5.38 each. How much did they take in total?

Which of these multiplications will have an answer greater than £100? How do you know? $4 \times £24.78$ $6 \times £18.45$ $5 \times £16.48$ $7 \times £15.27$

Write three multiplications with answers between £150 and £200.

Fold here to hide answers

Check your understanding Answers

A shop sells 6 boxes of chocolates at £12.79 a box and 8 chocolate bunnies at £5.38 each. How much did they take in total? £76.74 + £43.04 = £119.78

Which of these multiplications will have an answer greater than £100? How do you know? $4 \times £24.78 \ (£99.12) \ 6 \times £18.45 \ (£110.70) \ 5 \times £16.48 \ (£82.40) \ 7 \times £15.27 \ (£106.89)$ Does children's reasoning make sense? E.g. $4 \times £24.78$ is less than $4 \times £25$, which is £100. Therefore $4 \times £24.78 < £100$. $6 \times £18$ is £108, therefore $6 \times £18.45 > £100$. Rounding up, $5 \times £17 = £85$, so $5 \times £16.48 < £100$ $7 \times £15 = £105$, so $7 \times £15.27 > £100$.

Write three multiplications with answers between £150 and £200. Any multiplications with answers in this range. Did children use rounding to help?