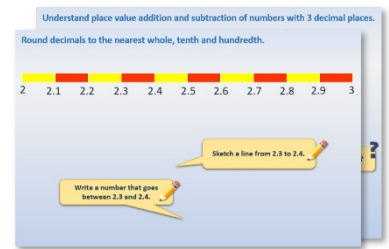


Year 3: Week 6, Day 1

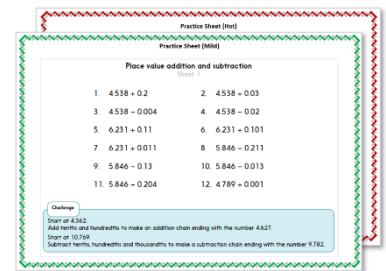
Order amounts of money

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

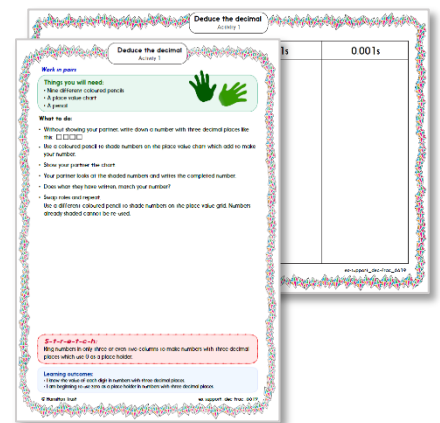
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

Understand place value in money, writing amounts in pounds and pence.

£1	.	10p	1p
6	.	5	4
4	.	5	6

We can use this money place value grid to write amounts of money.

Six pounds and
fifty four pence.

£6.54

Four pounds and
fifty six pence.

£4.56

Learning Reminders

Understand place value in money, writing amounts in pounds and pence.

£3.78

What is the value of each digit in this amount of money?



Write three amounts between £3 and £4.



They all have three pounds and some pence!

Now write three amounts between £3.50 and £3.60.



Which digits did you use in ALL of them?

Learning Reminders

Understand place value in money, writing amounts in pounds and pence.

Write four amounts
between £7 and £8.



Now order the amounts,
smallest to largest.

£7.24

£7.36

£7.64

£7.68

What digits did you
need to check to
work out the order?

Now try that again with
amounts between
£5 and £6...

Practice Sheet Mild

Place value and money practice

Find 3 amounts that lie between the following pairs of prices and order them from least to greatest:

1. £4.00 and £5.00
2. £9.00 and £10.00
3. £1.00 and £2.00
4. £3.50 and £4.00
5. £6.40 and £6.80
6. £2.60 and £2.90
7. £1.30 and £1.50
8. £7.70 and £7.80
9. £4.10 and £4.20
10. £5.90 and £6.00

Challenge

How many amounts between £1.30 and £1.50 can be made with exactly 3 coins?

Practice Sheet Hot

Place value and money practice

Find 3 amounts that lie between the following pairs of prices and order them from least to greatest:

1. £4.10 and £4.20
2. £5.90 and £6.00
3. £9.45 and £9.55
4. £8.23 and £8.33
5. £3.76 and £3.86
6. £1.97 and £2.07
7. £6.99 and £7.09
8. £7.93 and £8.03

Challenge

How many amounts between £4.50 and £5.00 contain all even digits, e.g. £4.82?

Practice Sheet Answers

Place value and money practice (Mild)

Challenge

How many amounts between £1.30 and £1.50 can be made with exactly 3 coins? £1.30 = £1 + 20p + 10p, £1.40 = £1 + 20p + 20p, £1.50 = 50p + 50p + 50p

Place value and money practice (Hot)

Challenge

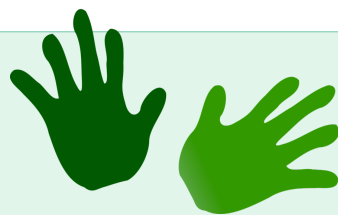
How many amounts between £4.50 and £5.00 contain all even digits, e.g. £4.82. Answers can include: £4.60, £4.62, £4.64, £4.66, £4.68, £4.80, £4.82, £4.84, £4.86, £4.88

A Bit Stuck? Coin count up

Play in pairs

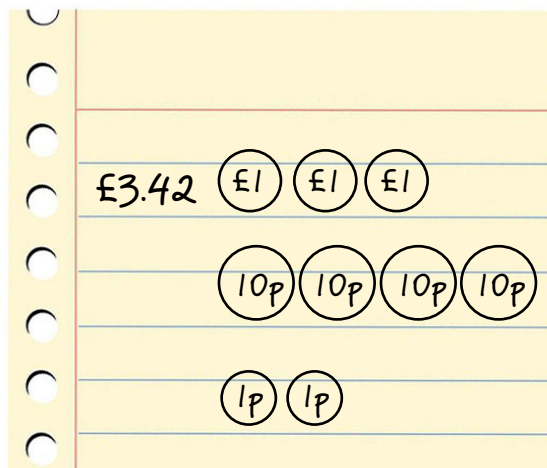
Things you will need:

- The money place value grid on your whiteboard
- A dice
- Pound, 10p and 1p coins
- A 100 bead string



What to do:

- Take it in turns to roll the dice.
- Decide whether to take that number of pound coins, 10p coins or 1p coins.
- Place your coins in the correct column on your place value grid.
- Repeat twice more *so that you have coins in each column.*
- You are aiming to make the biggest amount of money that you can!
- Write how much money you have made. Draw the coins by the side.
- Which person has most money?
They win a penny!
- Play at least five more times.



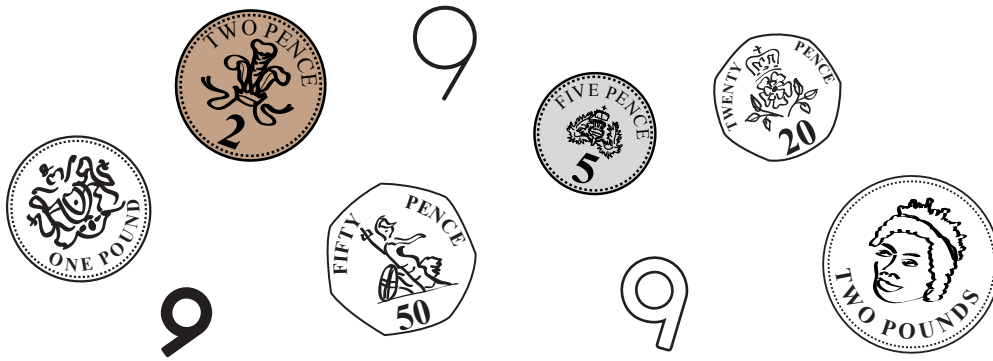
S-t-r-e-t-c-h:

Roll the dice only twice. Take a number of pound coins but only a number of 10p or 1p coins. How much money do you have?
In which column do you need to write a zero? Why?

Learning outcomes:

- I can write amounts of money in pounds and pence (£1s, 10ps and 1ps, no zeros).
- I can partition amounts of money less than £10 into pounds, 10ps and 1ps.
- I can compare amounts of money up to £10.
- I am beginning to understand how to write amounts of money with zero in the 10p or 1p column.

Investigation Nine-hunters



Your challenge is to find out how many amounts of money from £1 to £10 use the digit 9 at least once.

This is not a quick question to answer...!

What's your **strategy** going to be...?

- **Quick-start...** Think of three amounts, any amounts, containing at least one 9.
- **Choose a starting point...** Maybe start by listing the amounts that have a 9 between £1 and £2 that have the digit 9 in the 1p place...
e.g. £1.09, £1.19, £1.39 ... £1.99.

How will you **organise** your thinking and ideas?

- Maybe make a **list** of the amounts that have 9 in the 10ps place:
e.g. £1.90, £1.91... £1.99 [Note that you already have this last one...]

Are any **patterns** beginning to appear?

- Now think about the number of times the digit 9 is used between £2 and £3.
- Then between £3 and £4, then £4 and £5 ...

Thinking mathematically...

Is the digit 9 used the same number of times between £9 and £10?