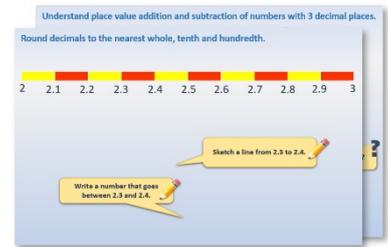


Week 11, Day 4

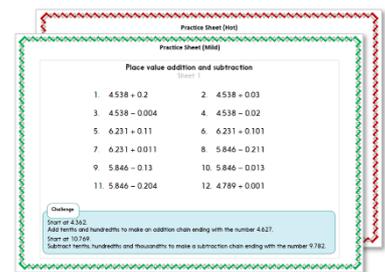
Use coins to make amounts

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

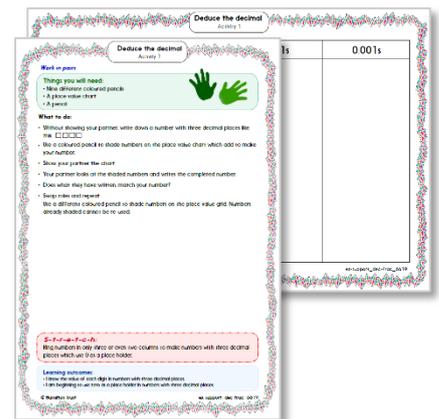
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

Recognise coins.

Do you know what each of these coins is worth?

The image displays eight British coins arranged in three rows. A thought bubble on the left contains the text 'Do you know what each of these coins is worth?' with a large question mark. Below each coin is its value in red text: 1p, 2p, 5p, 10p, 20p, 50p, £1, and £2.

- 1p
- 2p
- 5p
- 10p
- 20p
- 50p
- £1
- £2

Learning Reminders

Use coins to make amounts to at least £1.

At the fruit shop

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How much are these?

How could we pay for the strawberries?

It can be helpful to think of the largest coin that can be used first.

Learning Reminders

Use coins to make amounts to at least £1.

At the fruit shop

Item	Price
Apple	14p
Cherries (bag)	69p
Pineapple	99p
Pear	22p
Raspberries (box)	55p
Raspberries (basket)	59p
Oranges	74p
Fruit Basket	£1

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How could we pay for the cherries?



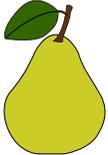
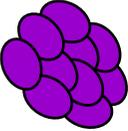
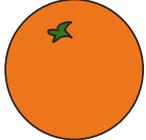
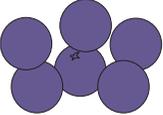
Or maybe...



Practice Sheet Mild

Paying with exact amounts

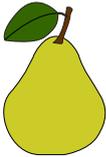
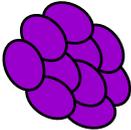
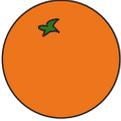
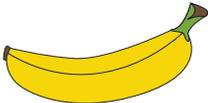
Find two different ways to pay for each fruit – which uses the smallest number of coins?

		Set 1	Set 2
17p			
28p			
41p			
36p			
52p			

Practice Sheet Hot

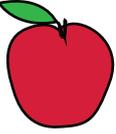
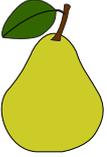
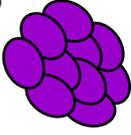
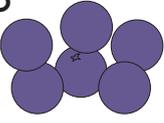
Paying with exact amounts

Find three different ways to pay for each fruit - which uses the smallest number of coins?

	Set 1	Set 2	Set 3
47p 			
52p 			
69p 			
83p 			
£1 			
£1.44 			
£1.75 			
£1.89 			

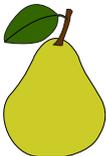
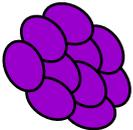
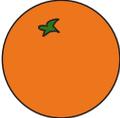
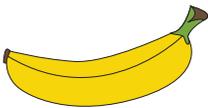
Practice Sheets Answers

Paying with exact amounts (mild)

	Set 1	Set 2
17p 	10p, 5p, 2p uses fewest coins	e.g. 10p, 5p, 1p, 1p
28p 	20p, 5p, 2p, 1p uses fewest coins	e.g. 10p, 10p, 2p, 2p, 2p, 1p, 1p
41p 	20p, 20p, 1p uses fewest coins	e.g. 20p, 10p, 10p, 1p
36p 	20p, 10p, 5p, 1p uses fewest coins	e.g. 10p, 10p, 10p, 5p, 1p
52p 	50p, 2p uses fewest coins	e.g. 20p, 20p, 10p, 2p

Practice Sheets Answers

Paying with exact amounts (hot)

	Set 1	Set 2	Set 3
47p 	20p, 20p, 5p, 2p uses fewest coins	e.g. 20p, 10p, 10p, 2p, 2p, 2p, 1p	e.g. 20p, 10p, 5p, 5p, 5p, 2p
52p 	50p, 2p uses fewest coins	e.g. 20p, 20p, 10p, 2p	e.g. 10p, 10p, 10p, 20p, 1p, 1p
69p 	50p, 10p, 5p, 2p, 2p uses fewest coins	e.g. 20p, 20p, 20p, 5p, 2p, 1p, 1p	e.g. 20p, 20p, 10p, 10p, 5p, 2p, 2p
83p 	50p, 20p, 10p, 2p, 1p uses fewest coins	e.g. 20p, 20p, 20p, 20p, 2p, 1p	e.g. 20p, 20p, 10p, 10p, 10p, 5p, 5p, 2p, 1p
£1 	£1 uses fewest coins	e.g. 20p, 20p, 20p, 20p, 20p	e.g. 50p, 50p
£1.44 	£1, 20p, 20p, 2p, 2p uses fewest coins	e.g. 50p, 50p, 20p, 20p 2p, 1p, 1p	e.g. 20p, 20p, 20p, 20p, 20p, 10p, 10p, 10p, 10p, 2p, 2p
£1.75 	£1, 50p, 20p, 5p uses fewest coins	e.g. £1, 20p, 20p, 20p, 10p, 5p	e.g. 50p, 50p, 50p, 20p, 5p
£1.89 	£1, 50p, 20p, 10p, 5p, 2p, 2p uses fewest coins	e.g. 50p, 50p, 20p, 20p, 20p, 20p, 5p, 2p, 2p	e.g. £1, 20p, 20p, 20p, 10p, 10p, 5p, 2p, 1p, 1p

A Bit Stuck? Coin towers

Work in pairs

Things you will need:

- A pot of 1p, 2p, 5p, 10p and 20p coins
- 11p to 30p cards



What to do:

- Shuffle the cards and place face down. Take the top card and turn it over.
- Work together to make the amount on the card using coins. Place the coins on the card in a tower. Try and keep your towers as small as possible!
- Repeat with as many cards as you can.
- You will score one point for each correct total, and a bonus point if you used the smallest number of coins possible.



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

Choose three amounts between 30p and 40p to make using the smallest number of coins possible.

Learning outcomes:

- I can make amounts up to 30p using coins.
- I am beginning to make amounts up to 40p using the smallest number of coins possible.

A Bit Stuck?
Coin towers

11p

12p

13p

14p

15p

16p

17p

18p

19p

20p

A Bit Stuck?
Coin towers

21p

22p

23p

24p

25p

26p

27p

28p

29p

30p

Investigation

One pound names

1. Write your name, e.g. Caitlin.
2. Look at the alphabet. Write the amount beside each letter.
3. Choose two numbers to add first.
4. Choose two more numbers to add.
5. Continue like this. Find the grand total for your name!
6. Repeat for your partner's name.

Try out several more names – brothers and sisters, maybe your favourite TV character, a singer or a footballer you admire!

7. Create a name that would be worth exactly ONE POUND!

a	1p
b	2p
c	3p
d	4p
e	5p
f	6p
g	7p
h	8p
i	9p
j	10p
k	11p
l	12p
m	13p
n	14p
o	15p
p	16p
q	17p
r	18p
s	19p
t	20p
u	21p
v	22p
w	23p
x	24p
y	25p
z	26p

C = 3p
a = 1p
i = 9p
t = 20p
l = 12p
i = 9p
n = 14p
14p + 12p = 26p
9p + 9p = 18p
3p + 1p = 4p
26p + 4p = 30p
30p + 20p + 18p = 68p