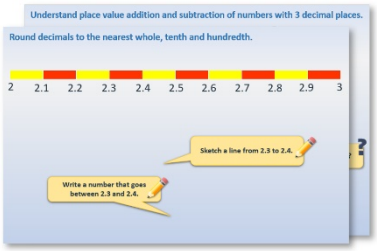
Year 3: Week 1, Day 3

Adding mentally – in our heads!

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.



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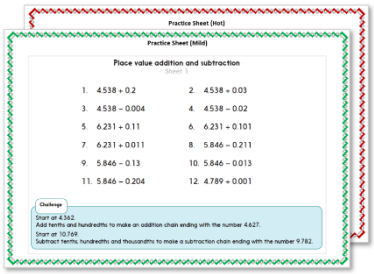
2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



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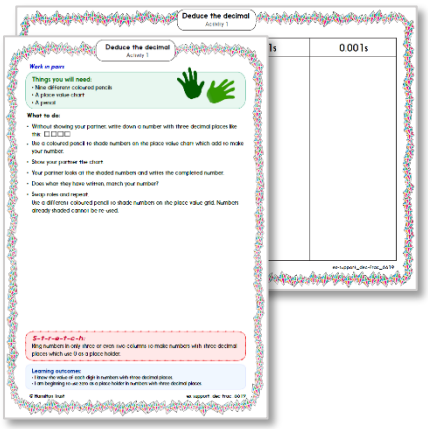
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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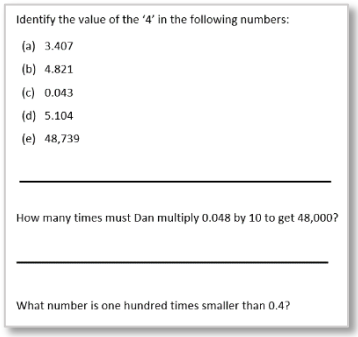
4. Have I mastered the topic? A few questions to **Check your understanding**.
   Fold the page to hide the answers!



Learning Reminders

Adding three 2-digit numbers using different strategies.

How could we find the total length of these 3 ribbons?

Let's try partitioning into 10s and 1s and putting the larger numbers first.

40 + 20 + 10 = ?

8 + 5 + 3 = ?

70 + 16 = ?

Learning Reminders

Adding three 2-digit numbers using different strategies.

What about these three ribbons?

Let's try partitioning into 10s and 1s. Did you spot the pair of 1s that make 10?

50 + 40 + 20 = ?

8 + 7 + 3 = ?

110 + 18 = ?

Learning Reminders

Adding three 2-digit numbers using different strategies.

65 27 35 31 48

Are there three of these numbers that would be straightforward to add? Which group of three could be trickiest?

65 , 35 and 21.
5 + 5 = 10 to help us add the 1s.

60 + 40 + 20 = ?

48, 65 and 27 could be trickier...
Let's try partitioning.

8 + 7 + 5 = ?

120 + 20 = ?

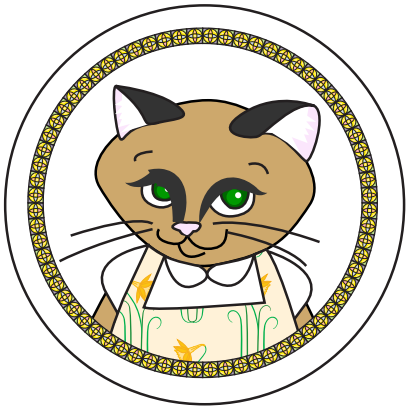
Practice Sheet Mild

Addition and subtraction practice

You have £1 pocket money to spend. Which two stickers can you buy? Find as many pairs as you can.

70p

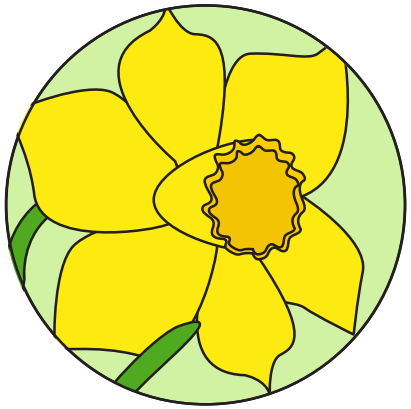
27p



73p

23p

41p



59p

Practice Sheet Hot

Addition and subtraction practice

1. 36 + 23 =
2. 54 + 24 =
3. 67 + 21 =
4. 65 + 25 =

5. 36 + 47 + 54 =
6. 42 + 28 + 38 =
7. 53 + 27 + 41 =
8. 52 + 62 + 38 =
9. 42 + 37 + 48 =
10. 55 + 32 + 25 =

11. Ellie bought a skateboard for £45, a helmet for £24 and knee pads for £19.
How much did she spend altogether?

12. Daniel bought roller skates for £56, a helmet for £24 and arm pads for £21.
How much did he spend altogether?

13. 146 + 58 + 47 =
14. 241 + 27 + 18 =
15. 135 + 28 + 36 =
16. 127 + 54 + 31=

Challenge

Can you find three two-digit numbers that add up to a total of 200?

Practice Sheet Answers

Addition and subtraction practice (Mild)

Possible combinations:

73p + 27p = £1
73p + 23p = 96p
70p + 27p = 97p
70p + 23p = 93p
59p + 41p = £1
59p + 27p = 86p
59p + 23p = 82p
41p + 27p = 68p
41p + 23p = 64p
27p + 23p = 50p

Addition and subtraction practice (Hot)

1. 36 + 23 = 59
2. 54 + 24 = 78
3. 67 + 21 = 88
4. 65 + 25 = 90
5. 36 + 47 + 54 = 137
6. 42 + 28 + 38 = 108
7. 53 + 27 + 41 = 121
8. 52 + 62 + 38 = 152
9. 42 + 37 + 48 = 127
10. 55 + 32 + 25 = 112
11. £45 + £24 + £19 = £88
12. £56 + £24 + £21 = £101
13. 146 + 58 + 47 = 251
14. 241 + 27 + 18 = 286
15. 135 + 28 + 36 = 199
16. 127 + 54 + 31 = 212

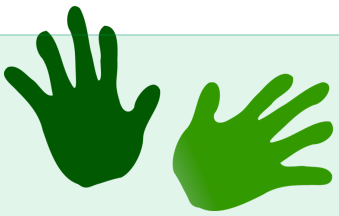
A Bit Stuck?

Do the splits

Work in pairs

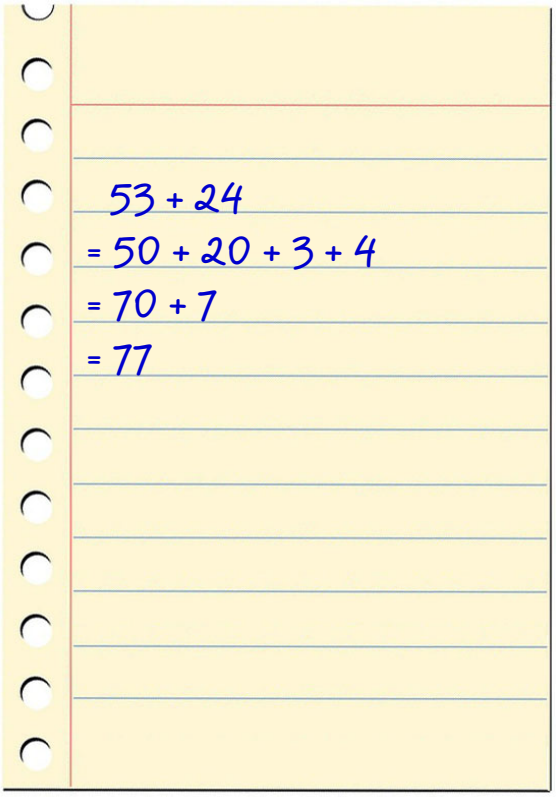
Things you will need:

- A set of 10s and 1s place value cards
- A pencil



What to do:

- Shuffle the 10 to 50 cards and place face down in a pile. Shuffle the 1 to 5 cards and place face down.
- Take the top card from each pile and put them together to make a 2-digit number.
- Take the next card from each pile to make another 2-digit number.
- One person collects the 10s.
  The other person collects the 1s.
  How much do you have each?
  Now add your totals.
- Record the addition.
- How many split sums can you do before the time is up?

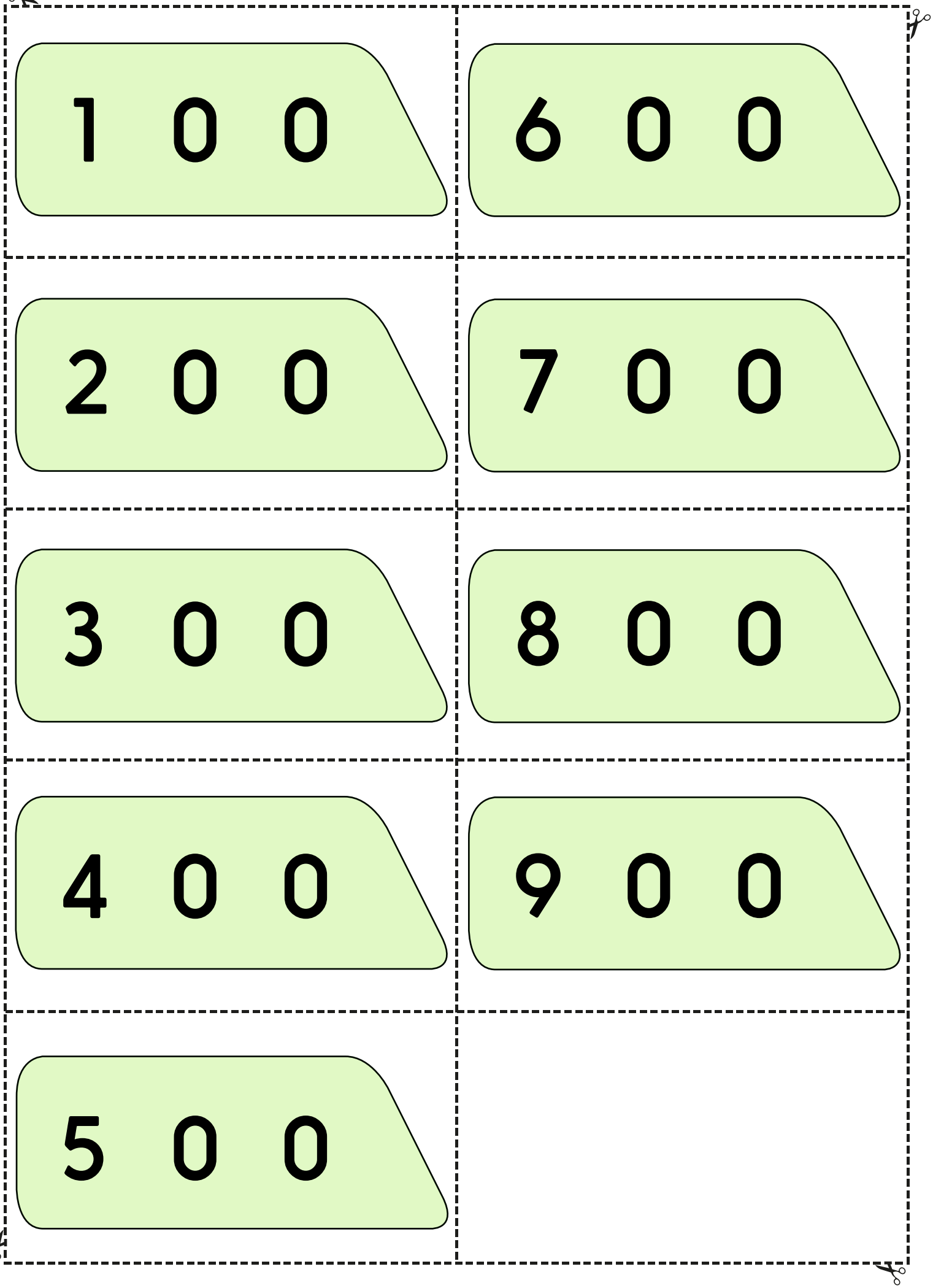


S-t-r-e-t-c-h:

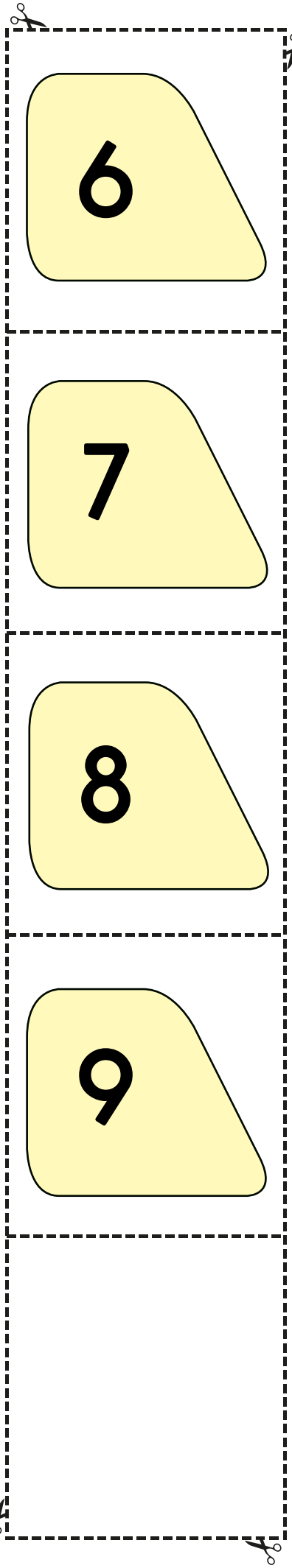
Include the 6 to 9 cards so that sometimes the 1s will come to more than 10.

Learning outcomes:

- I can add pairs of 2-digit numbers using partitioning (1s < 10, 10s < 100)
- I am beginning to add pairs of 2-digit numbers where the 1s come to more than 10.


100
600
200
700
300
800
400
900
500

10	60	1
20	70	2
30	80	3
40	90	4
50		5


6
7
8
9

Check your understanding:
Questions

Use a different strategy for each of these additions:

(a) 45 + 29
(b) 45 + 34
(c) 65 + 35
(d) 78 + 28

Explain why you chose a particular strategy for (a) and (c)

Complete the bar model diagrams:

?	
36	37

?	
57	39

?	
48	24

Fold here to hide answers:

Check your understanding:
Answers

Use a different strategy for each of these additions:

(a) 45 + 29 = 74 — Add 30 and subtract 1
(b) 45 + 34 = 79 — Add 30 then 4 or add 40 + 30, then 5 + 4, then 70 + 9
(c) 65 + 35 = 100 — Numbers which add to 10 or 100
(d) 78 + 28 = 106 — Easiest to do as 70 + 20, then 8 + 8, then 90 + 16

Explain why you chose a particular strategy for (a) and (c)

Children may use other strategies but are they the most efficient? Encourage ways of doing each one to avoid making errors.

Complete the bar model diagrams:

73	
36	37

96	
57	39

72	
48	24