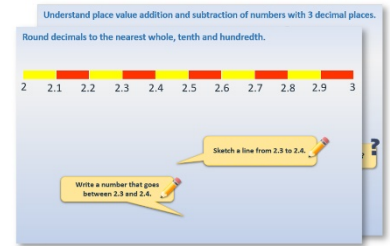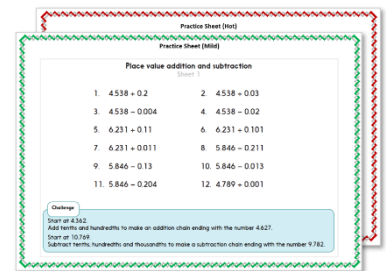# Year 3: Week 1, Day 2
3-digit numbers

Each day covers one maths topic. It should take you about 1 hour or just a little more.
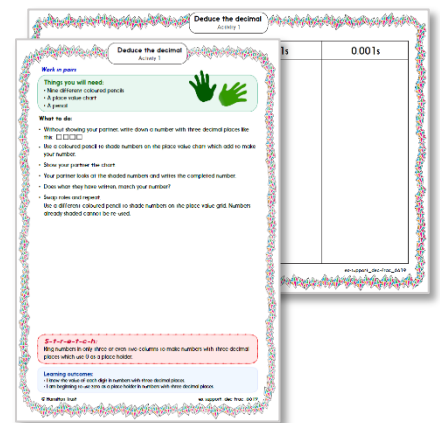
1. Start by reading through the **Learning Reminders**.
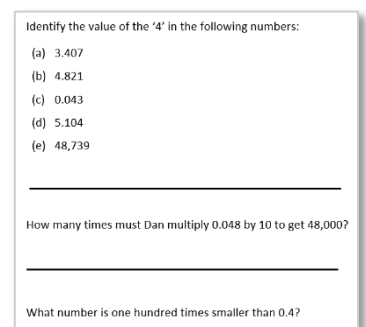   They come from our *PowerPoint* slides.

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

Learning Reminders

Partition and represent 3-digit numbers using place value cards.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

700   80   5   →   7 8 5

Find the total of the numbers.

400   60   1   →

300   8   →

Learning Reminders

Partition and represent 3-digit numbers using place value cards.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

What numbers can you use to make **639?**

744?

460?

6 0 0   3 0   9   ➡   6 3 9
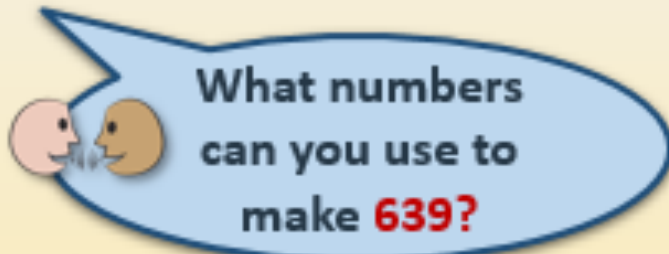
Practice Sheet Mild
Place value practice

Use the following digits to make 3-digit numbers as instructed:

| 3 | 2 | 7 | 9 | 4 |

1. A number with seven 100s.

2. A number where the 10s digit is four.

3. A number with a 1s digit <3.

4. A number with more than six 10s.

5. An even number between 200 and 300.

6. An odd number >800.

Now order these numbers from smallest to largest:

Challenge

How many numbers are there between (but not including)100 and 200 that have a seven in them?

Practice Sheet Hot
Place value practice

Use the following digits to make as many 3-digit numbers as you can.
Now order them all from smallest to largest.

Start using these digits: 1, 5, 7, 0, 9, 3

157, 150, 159...

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Practice Sheet Answers

Place value practice (Mild)

1. e.g. **7**39
2. e.g. 2**4**3
3. e.g. 49**2**
4. e.g. 3**7**4 or 2**9**4
5. e.g. 27**4**
6. e.g. 92**7**

Challenge

There are 19 numbers:
1s digit is 7: 107, 117, 127, …197 (10 numbers).
10s digit is 7: 170, 171, 172, …179 (not counting 177 because it was in the list above,
9 numbers).

Place value practice (Hot)

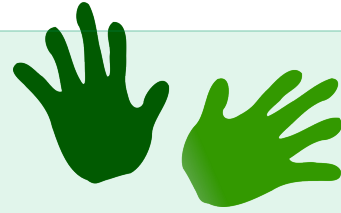e.g. 103, 197, 359, 301, 571, 509, etc.

Challenge

There are 80 numbers between 100 and 200 without a seven in them.

Work in pairs

Things you will need:
• 100s, 10s and 1s place value cards

What to do:

• Take it in turns to choose a number.
• One person makes that number using place value cards.
• They then show the three cards in any order to their partner.
• They must write the number and say it aloud.
• Do you agree?
• Repeat this, taking turns to make the number.

326	**831**	**555**	**473**	**154**

617	**282**	**736**	**962**

S-t-r-e-t-c-h:
Make the numbers 520 and 603 using place value cards.

Learning outcomes:
• I can make 3-digit numbers using place value equipment (no zeros).
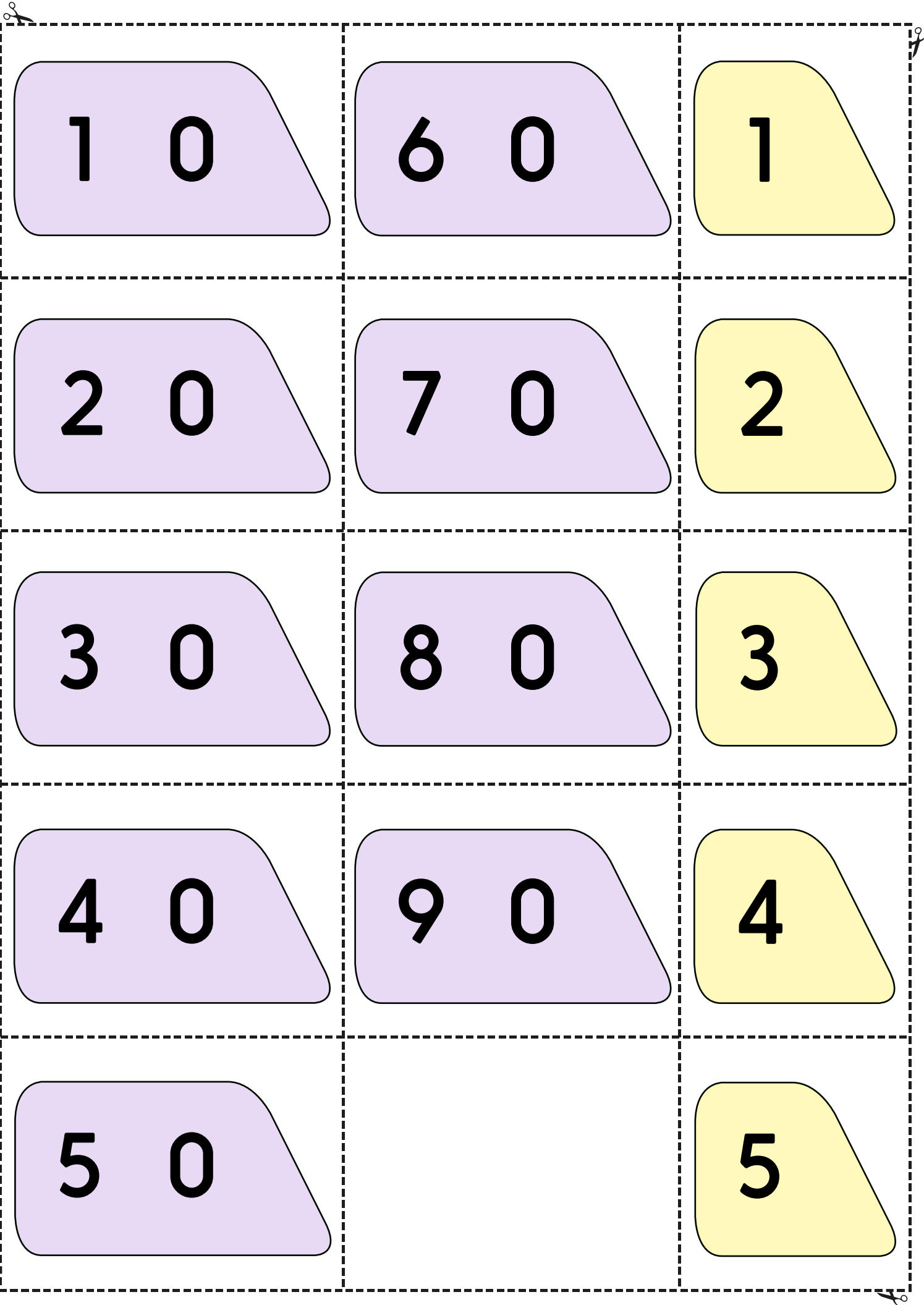• I am beginning to make 3-digit numbers with a 0 in the 10s or 1s place using place value equipment.

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1 0 0	6 0 0
2 0 0	7 0 0
3 0 0	8 0 0
4 0 0	9 0 0
5 0 0	

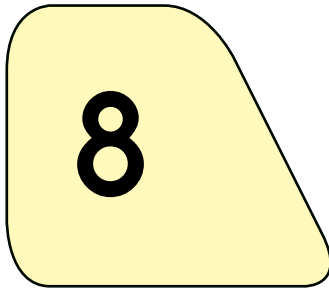|		
1 0	6 0	1
2 0	7 0	2
3 0	8 0	3
4 0	9 0	4
5 0		5

6
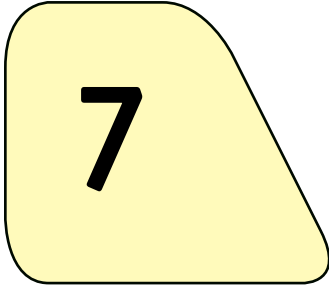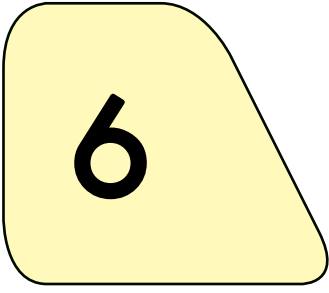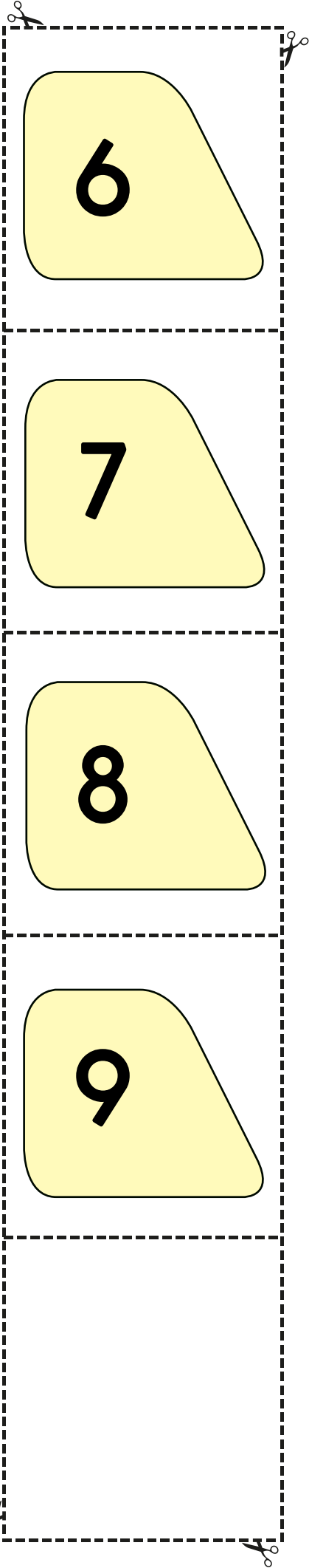
7

8

9
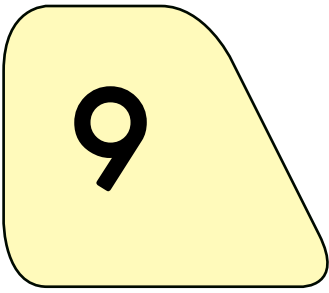
Check your understanding:
Questions

Write numbers to make the sentences true:

a) 100 < ☐ < 110

b) 304 > ☐ > 302

c) 999 > ☐ > 888

d) 0 < 101 < ☐

e) 459 < ☐ < 461

Write the value of the 5 digit in these numbers:

(i) 652

(ii) 591

(iii) 905

Check your understanding:
Answers

Write numbers to make the sentences true:

f) 100 < ☐ < 110 Any number from 101 to 109.

g) 304 > ☐ > 302 303.

h) 999 > ☐ > 888 Any number from 889 to 998.

i) 0 < 101 < ☐ Any number 102 or greater.

j) 459 < ☐ < 461 460.

Write the value of the 5 digit in these numbers:

(i) 652 50 (or 5 tens).

(ii) 591 500 (or 5 hundreds).

(iii) 905 5 (or 5 ones).

- The digit 0 is used 18 times between 600 and 700. True, in the numbers 601 – 609 (9 times) and 610, 620 … 690 (9 times).