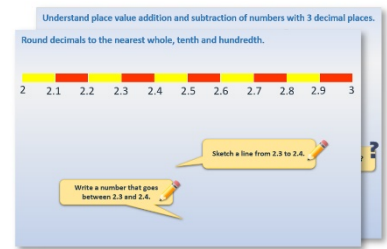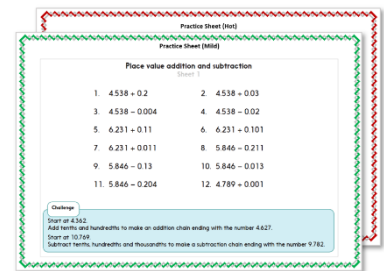# Year 3: Week 1, Day 4
Written addition

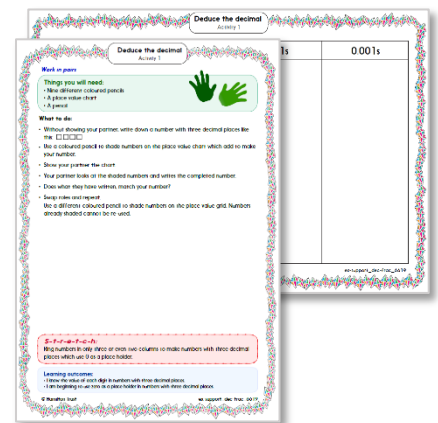**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

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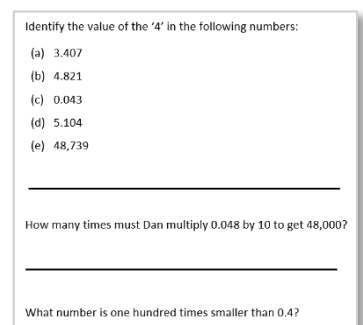   They come from our *PowerPoint* slides.

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

Add 3-digit numbers using expanded addition.

$$
\begin{array}{r r r}
500 & 20 & 8 \\
+\ 300 & 30 & 3 \\
& & 10 \\
\hline
800 & 60 & 1 \\
\end{array}
$$

$800 + 60 + 1 = 861$

Let's try 528 + 333.

The numbers are **partitioned**, lined up in 100s, 10s and 1s and a **blank space** left under the second number.

Add the 1s. 8 + 3 = 11. The 1s come to more than 10 so we write 10 in the **waiting line** under the 10s and 1 under the 1s in the **answer line.**

Next add the 10s... 20 + 30 + 10 = ?

Lastly the 100s... 500 + 300 = ?

Finally **recombine** 800, 60 and 1....

Learning Reminders

Add 3-digit numbers using expanded addition.

```
    300  60  2
  + 400  80  3
    100
  _____
    800  40  5
```

800 + 40 + 5 = 845

Now let's try 362 + 483.

Partition and line up the numbers. Remember to leave a **blank space** left under the second number.

Add the 1s. 2 + 3 = ?

Next add the 10s...
60 + 80 = ?
The **10s come to more than 100** so we write 100 in the **waiting line** under the 100s and 40 under the 10s in the **answer line.**

Lastly the 100s...
300 + 400 + 100 = ?

Finally **recombine** 800, 40 and 5....

Practice Sheet Mild
Addition and subtraction practice

437 + 231

400	30	7
200	30	1

_____

523 + 415

500	20	3
400	10	5

_____

743 + 126

700	40	3
100	20	6

_____

545 + 427

500	40	5
400	20	7

_____

614 + 352

572 + 325

353 + 216

436 + 265

Challenge

Write two additions with an answer of 888.

Practice Sheet Hot
Addition and subtraction practice

1.   438 + 214

2.   549 + 235

3.   116 + 236

4.   239 + 344

5.   625 + 147

6.   378 + 414

7.   380 + 257

8.   472 + 384

9.   582 + 284

10. 693 + 242

11. 461 + 256

12. 543 + 261

Challenge

Write two additions with the answer 321. You can't use a zero in either number!

Practice Sheet Answers

Addition and subtraction practice (Mild)

437 + 231 = 668   523 + 415 = 938
743 + 126 = 869   545 + 427 = 972

614 + 352 = 966
353 + 216 = 569
572 + 325 = 897
436 + 265 = 701

Challenge

Accept correctly laid out answers where total is 888, e.g.
444 + 444, 350 + 538, 480 + 408, 738 + 150, etc.

Addition and subtraction practice (Hot)

1.   438 + 214 = 652
2.   549 + 235 = 784
3.   116 + 236 = 352
4.   239 + 344 = 583
5.   625 + 147 = 772
6.   378 + 414 = 792
7.   380 + 257 = 637
8.   472 + 384 = 856
9.   582 + 284 = 866
10.   693 + 242 = 935
11.   461 + 256 = 717
12.   543 + 261 = 804

Challenge

Accept asnswers where the total is 321, e.g.
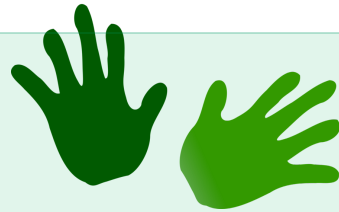198 + 123, 167 + 154, 272 + 49, etc.

Work in pairs

Things you will need:
• A set of 100s, 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 9 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.

• Repeat at least two more times.

• Play again, but this time shuffle the 10 to 90 cards, and the 1 to 5 cards.

• Repeat at least two more times.

$$47 + 26$$
$$= 40 + 20 + 7 + 6$$
$$= 60 + 13$$
$$= 73$$

S-t-r-e-t-c-h:
Use 10 to 90 and 1 to 9 cards so that sometimes the 1s will come to more than 10 and the 10s will come to more than 100.

Learning outcomes:
• I can add pairs of 2-digit numbers using partitioning (1s > 10 or 10s > 100).
• I am beginning to add pairs of 2-digit numbers where the 1s come to more than 10 the 10s come to more than 100.
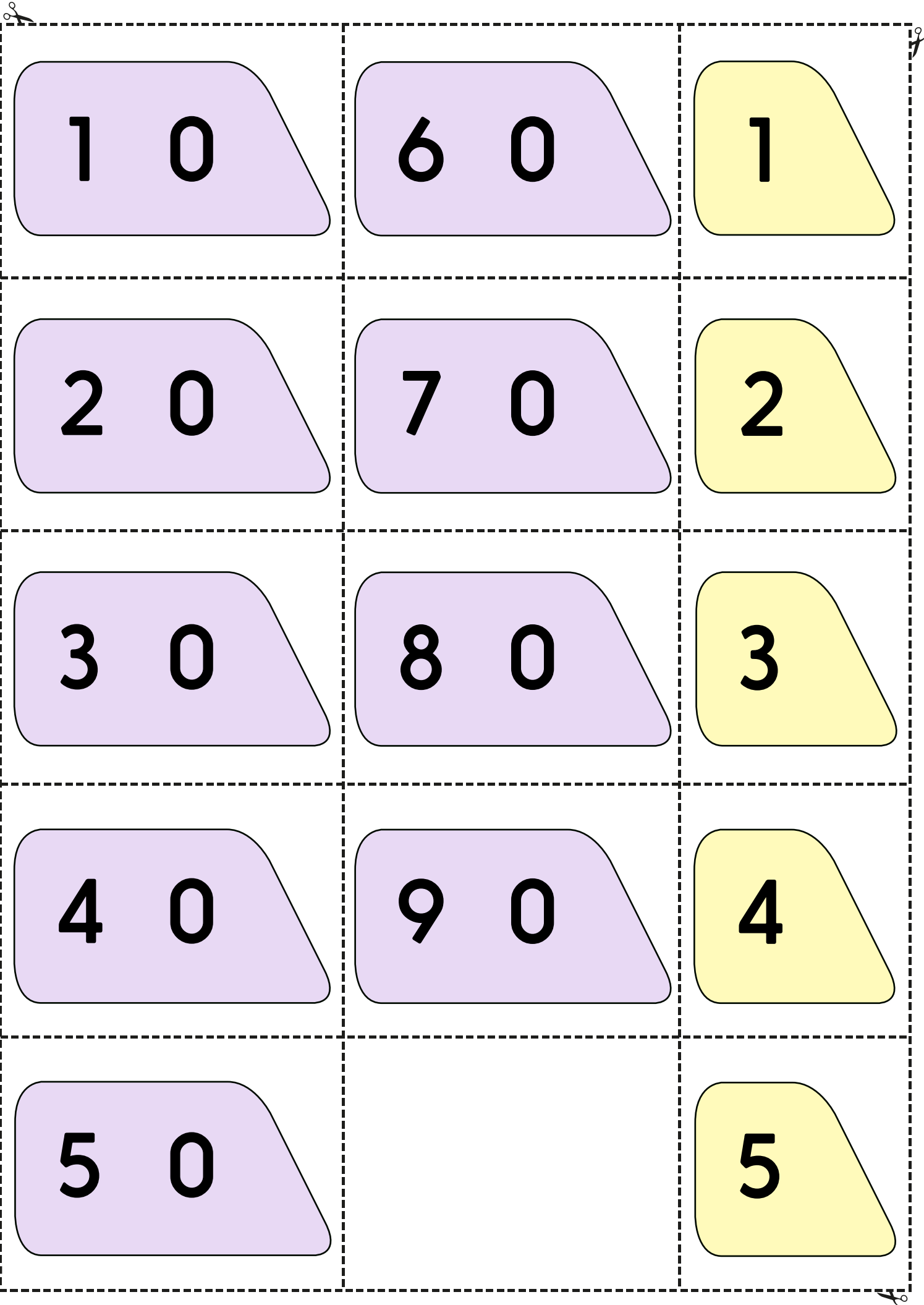
1 0 0	6 0 0
2 0 0	7 0 0
3 0 0	8 0 0
4 0 0	9 0 0
5 0 0	

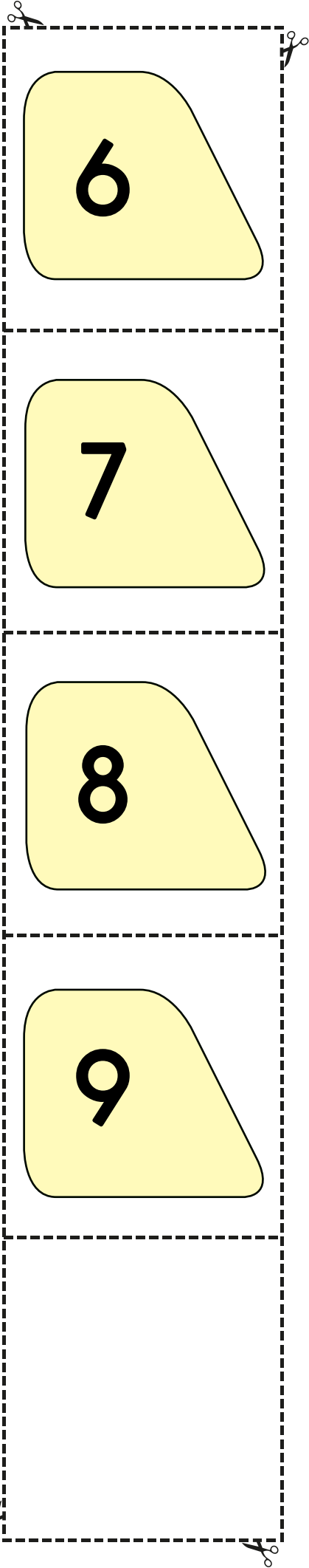| 1 0	6 0	1
2 0	7 0	2
3 0	8 0	3
4 0	9 0	4
5 0		5

6

7

8

9

Check your understanding:
Questions

What is the total of two hundred and sixty-eight and two hundred and eighty-six?

Write the missing numbers

643 + 174 = ☐

☐ − 356 = 238

327 + 258 = ☐

☐ − 426 = 247

Amit uses 346 Lego pieces in building his model X-wing, and his sister uses 287 in building her Millennium Falcon.

How many Lego pieces have they used altogether?

Fold here to hide answers:

Check your understanding:
Answers

For this, children should be using the expanded column method. Errors may be due to splitting numbers wrongly, lining them up incorrectly or to making mistakes in the procedure. Talk through how they did each calculation that they got wrong.

What is the total of two hundred and sixty-eight and two hundred and eighty-six? 554

Write the missing numbers

643 + 174 = 817

594 − 356 = 238

327 + 258 = 585

673 − 426 = 247

Some may not recognise the second and fourth question as one to do using addition.

Amit uses 346 Lego pieces in building his model X-wing, and his sister uses 287 in building her Millennium Falcon.

How many Lego pieces have they used altogether? 633 pieces.