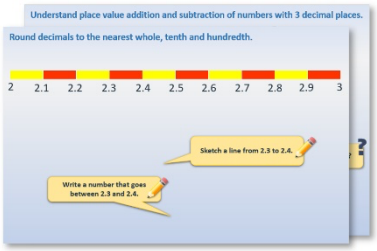
Week 15, Day 4
Odd and even numbers

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**.



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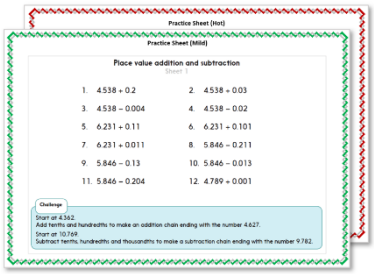
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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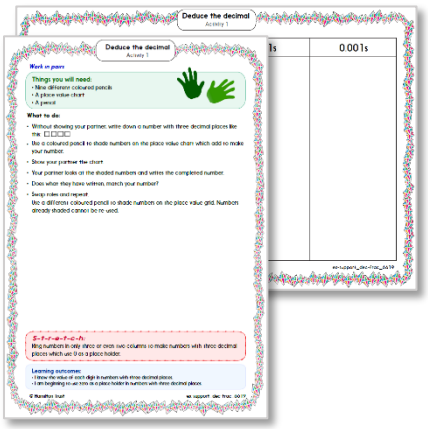
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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4. Think you've cracked it? Whizzed through the Practice Sheets?
Have a go at the **Investigation**…

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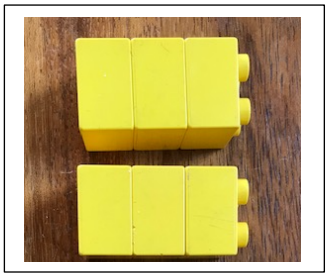
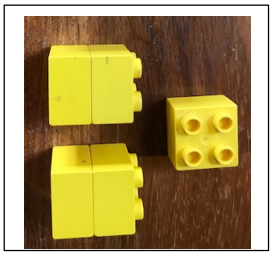
Learning Reminders

Even and odd numbers

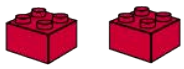
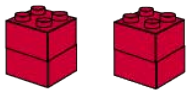
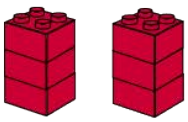
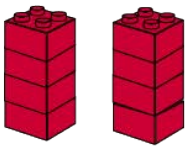
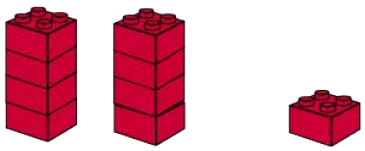
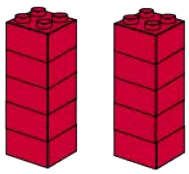
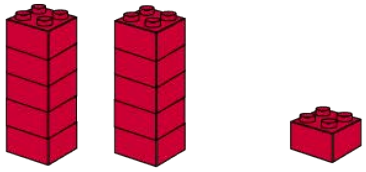
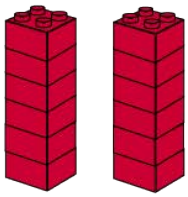
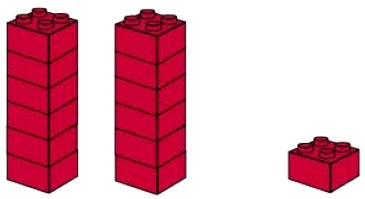
Some numbers can be equally spilt into two sets without having a half brick.



Some numbers can't.



In the numbers to 20….

Numbers ending 0, 2, 4, 6, 8 can all be split		Numbers ending 1, 3, 5, 7, 9 cannot be split	
2		3	
4		5	
6		7	
8		9	
10		11	
12		13	

Numbers ending in 0, 2, 4, 6, 8 are even numbers.
Numbers ending in 1, 3, 5, 7, 9 are odd numbers.

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Practice for all

Odd and even number spiral

- Starting at 1, colour the **odd numbers** in yellow and the **even numbers** in orange.
- What pattern do you make?

43	44	45	46	47	48	49
42	21	22	23	24	25	26
41	20	7	8	9	10	27
40	19	6	1	2	11	28
39	18	5	4	3	12	29
38	17	16	15	14	13	30
37	36	35	34	33	32	31

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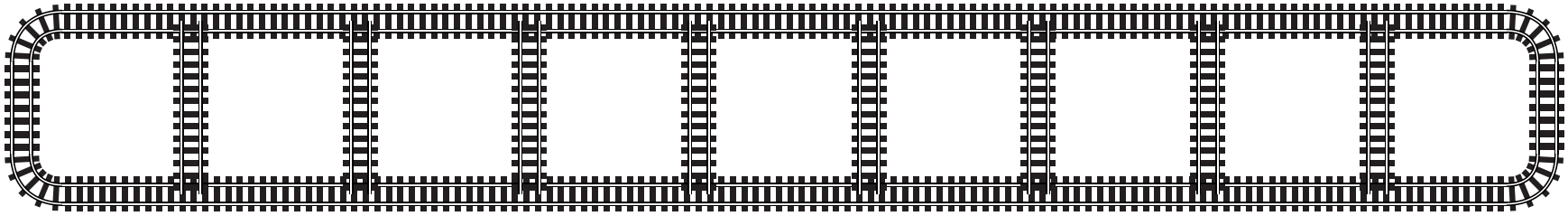
A Bit Stuck?

Work out the odd and even numbers

2	10	7
4	8	6
3	5	9

Look at the grid.
Count out bricks for each number and work out if they can be shared equally. Circle EVEN numbers in red, ODD numbers in blue.



Write the numbers in order on this track, EVEN numbers in red, ODD numbers in blue.

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Investigation
Number grid patterns

- In each grid, colour the odd numbers in yellow and the even numbers in orange.

4 by 4 grid

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

5 by 5 grid

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

- What patterns have you made?

- Now look at the two grids below.
  Before you start colouring, think what the patterns will be like on the grids ...
- Now colour and see if you were right!

6 by 6 grid

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

7 by 7 grid

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49

Challenge

What do you think the pattern will look like on an 8 by 8 grid?
On a 9 by 9 grid?

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