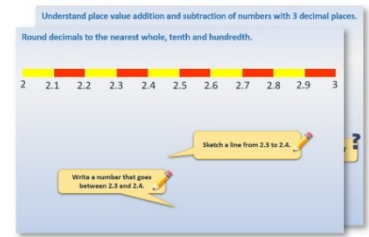


# Year 5: Week 3, Day 1

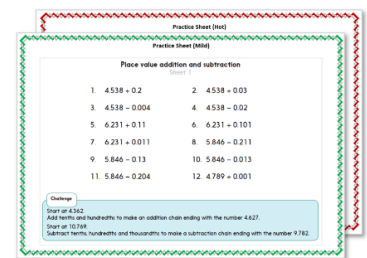
## Multiples and factors

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

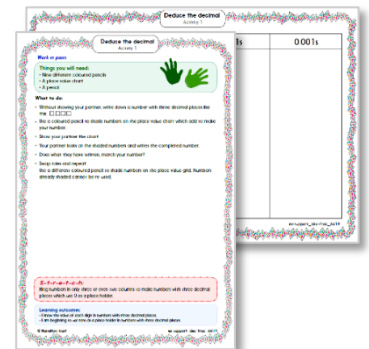
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



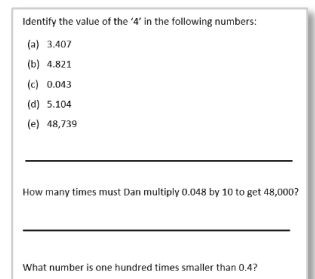
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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!



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

## Learning Reminders

Find lowest common multiples.

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	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiples of 2 are yellow on this grid.  
Multiples of 3 are pink.

Which numbers are shaded pink and yellow on the grid?  
These are the common multiples of 2 and 3.

Which of these common multiples is the lowest?

6 is the lowest common multiple of 2 and 3.

## Learning Reminders

Find highest common factors.

32

16

24

List some numbers which are factors of all three of these numbers.

Which is the biggest number that goes exactly into all these numbers?  
We call this the highest common factor.

1

2

4

8

## Practice Sheet Mild

### Finding common factors and multiples

Find the highest common factor of these pairs of numbers:

1. 24 and 36
2. 14 and 28
3. 16 and 20
4. 18 and 27
5. 12 and 24

Find the lowest common multiple of these pairs of numbers:

6. 2 and 5
7. 4 and 5
8. 6 and 9
9. 4 and 6
10. 4 and 8

#### Challenge

Choose any three consecutive numbers between 2 and 9.  
Can you find the lowest common multiple of the numbers?  
Repeat for another three numbers.

## Practice Sheet Hot

### Finding common factors and multiples

Find the highest common factor of these sets of numbers:

1. 24, 36 and 48
2. 14, 28 and 35
3. 16, 20 and 32
4. 18, 24 and 27
5. 12, 24 and 33

Find the lowest common multiple of these sets of numbers:

1. 2, 3, 5
2. 2, 4, 5
3. 3, 6, 9
4. 3, 5, 6
5. 4, 6, 8

#### Challenge

Choose any four consecutive numbers between 2 and 9.  
Can you find the lowest common multiple of the four numbers?  
Repeat for another four numbers.