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

- Start by reading through the Learning Reminders. They come from our *PowerPoint* slides.
- 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. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...
- 5. Have I mastered the topic? A few questions to Check your understanding.Fold the page to hide the answers!

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13	 Without showing your partner, write down a number with three decisiod places be any partnershow. 	8	
3	 The is coloured pencil to shade numbers on the place value chan which add to make 	÷.	
1	your sumber.	8 I.	
1	Show your partner the chart	3	
12	 Your partner loads of the shaded numbers and writes the completed number. 	8	
- 76	 Erick which they raise watering manufaction and manufaction 	22 C	
3		ALC 181	

Iden	tify the value of the '4' in the following numbers:					
(a)	3.407					
(b)	4.821					
(c)	0.043					
(d)	5.104					
(e)	48,739					
How many times must Dan multiply 0.048 by 10 to get 48,000?						
What number is one hundred times smaller than 0.4?						



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Learning Reminders







(1.8 =) **1.** (2.1 = 1.5) (2.1

Suggested strategies:

Practice Sheet Mild Decimal subtractions

Choose whether to count back or count up (Frog) to work out the answers to these subtractions.

1.	8.2 – 5.6	7.	9.2 – 0.5
2.	7.5 – 0.7	8.	4.2 - 3.9
3.	9.4 – 2.1	9 .	6.5 – 2.3
4 .	6.3 – 5.5	10.	8.3 – 0.7
5.	5.4 – 1.9	11.	10 - 4.9
6.	7.3 - 6.8	12	8.5 – 5.7

Challenge Now write two decimal subtractions where you would count back to find the answers. Write two decimal subtractions where you would count up (Frog) to work out the answers. Muddle them up and share with a partner. Can they say which subtractions you would work out using counting back and which you would work out using counting up?

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Practice Sheet Hot Decimal subtractions

Choose whether to count back or count up (Frog) to work out the answers to these subtractions.

1.	9.2 – 0.5	7.	12.6 - 8.3
2 .	4.2 - 3.9	8.	14.3 - 11.6
3.	6.5 – 2.3	9.	10.4 - 0.5
4 .	8.3 – 0.7	10.	17.6 - 1.9
5.	10 – 4.9	11.	20 - 12.4
6.	8.5 – 5.7	12.	23.8 - 17.2

Challenge Now write two decimal subtractions where you would count back to find the answers. Write two decimal subtractions where you would count up (Frog) to work out the answers. Muddle them up and share with a partner. Can they say which subtractions you would work out using counting back and which you would work out using counting up?

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Practice Sheet Answers

Decimal subtractions (mild)

1.	8.2 – 5.6 = 2.6
2.	7.5 – 0.7 = 6.8
3.	9.4 - 2.1 = 7.3
4 .	6.3 - 5.5 = 0.8
5.	5.4 - 1.9 = 3.5
6.	7.3 - 6.8 = 0.5
7.	9.2 - 0.5 = 8.7
8.	4.2 - 3.9 = 0.3
9.	6.5 – 2.3 = 4.2
10.	8.3 - 0.7 = 7.6
11.	10 – 4.9 = 5.1
12.	8.5 - 5.7 = 2.8

Decimal subtractions (hot)

1.	9.2 - 0.5 = 8.7
2.	4.2 - 3.9 = 0.3
3.	6.5 – 2.3 = 4.2
4 .	8.3 – 0.7 = 7.6
5.	10 – 4.9 = 5.1
6.	8.5 – 5.7 = 2.8
7 .	12.6 - 8.3 = 4.3
8 .	14.3 - 11.6 = 2.7
9.	10.4 - 0.5 = 9.9
10.	17.6 - 1.9 = 15.7
11.	20 - 12.4 = 7.6
12.	23.8 - 17.2 = 6.6

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A Bit Stuck? Count back or Frog?

Things you will need:

- Two large pieces of card
- Scissors
- Subtraction cards

What to do:

- Write the headings 'Count back' and 'Frog' at the top of two large pieces of paper; one heading on each piece of paper.
- Cut out the eight Subtraction cards.
- Sort the subtractions according to which strategy you think would be the most efficient to use to find the answer. If unsure, try both strategies then discuss which you found most efficient.
- Solve all of the subtractions. Remember that there is no 'right' or 'wrong' strategy to solve a given calculation, just that we might find it is more efficiently solved using one method than another.

S-t-r-e-t-c-h: Use the blank cards to write at least one more question for each heading.

Learning outcomes:

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· I can reason about my choice of strategy to solve subtractions.

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Check your understanding Questions

Amit had a plank to make a shelf. It needed to be 4.6 metres long. However, it measures 5.25m at the moment. How much must he cut off?

Which of Anjeli's calculations is correct?

- (a) 4.35 + 0.03 = 4.65
- (b) 2.3 1.95 = 0.35
- (c) 6.3 + [___] = 9.8 missing number = 3.3
- (d) 7.72 + 12.3 = 8.95

Write the missing number in each of the bar models:

	6.4
2.7	?

9.2	
?	3.5

Check your understanding Answers

Amit had a plank to make a shelf. It needed to be 4.6 metres. However, it is 5.25m at the moment. How much must he cut off?

5.25 - 4.6 = 0.65 So he must cut off 0.65 of a metre.

Which of Anjeli's calculations is correct?

- (a) 4.35 + 0.03 = 4.65. wrong as 4.35 + 0.03 = 4.38
- (b) 2.3 − 1.95 = 0.35. ✓
- (c) 6.3 + [___] = 9.8 missing number = 3.3 wrong. It's 3.5
- (d) 7.72 + 12.3 = 8.95 wrong 7.72 + 12.3 = 20.02

Write the missing number in each of the bar models:

	6.4
2.7	3.7

9.2				
5.7	3.5			