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## Week 7, Day 2

## Use Frog (counting up) to subtract pairs of decimal numbers.

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

If possible, watch the PowerPoint presentation 1. with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- Tackle the questions on the **Practice Sheet**. 2. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.
- Finding it tricky? That's OK... have a go with a 3. grown-up at A Bit Stuck?

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







2 4538-00

4538 - 0.0

6. 6.231 + 0.101

0, 5.846 - 0.01

4538+02

4.538 - 0

5. 6.231+0.11

6.231+00

5.846 - 0.13







	Prac Subtr	ctice Sheet Mild racting decimals	•							
Use Frog to solve	these subtractions.									
1. 3.5 - 2.9	2.5	.2 - 3.7	3.	9.1 - 5.8						
4. 7.2 - 6.8	5 5. 8	.3 - 4.75	6.	9.23 - 7.8						
						,				
Challenge Make up at least 5 subtractions with an answer of 1.4										
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		Practice Subtracti	Sheet Hot ng decimals					
Use Frog to	o solve these su	lbtractions.						
1. 7.3 - 6	5.79 2.	8.45 - 7.8	3. 5.24 - 3.7	4. 9.4 - 5.78				
5. 8.7 - 6	6.45 6.	7.5 - 5.29	7. 10.67 - 5.3	8. 12.8 - 9.27				
Challenge Make up at least 5 subtractions with an answer of 3.15								
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Practice Sheets Answers	
Subtracting decimals (mild)	
1. 3.5 - 2.9 = 0.6   2. 5.2 - 3.7 = 1.5   3. 9.1 - 5.8 = 3.3	-
4. $7.2 - 6.85 = 0.35$ 5. $8.3 - 4.75 = 3.55$ 6. $9.23 - 7.8 = 1.43$	
	*
Challenge	
Accept any calculations with the correct answer of 1.4, e.g. $6.8 - 5.4 = 1.4$ ,	
(3.1 - 1.7 = 1.4 etc.	
Subtracting decimals (hot)	
1. $7.3 - 6.79 = 0.51$ 2. $8.45 - 7.8 = 0.65$	*
3. 5.24 - 3.7 = 1.54 4. 9.4 - 5.78 = 3.62 5 87 - 6.75 - 2.25 6 75 - 5.29 - 2.21	0
7. 10.67 - 5.3 = 5.37 8. 12.8 - 9.27 = 3.53	
Challenge	
Accept any calculations with the correct answer of $3.15$ , e.g. $8.75 - 5.6 = 3.15$	-
	*

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2



Draw your own number line jotting to work out 6.2 - 5.5 and 8.4 - 7.8. Remember to use your pairs to 10 to help.

• I can use counting up (Frog) on a decimal number line to find the difference between decimal numbers on either side of a whole number, e.g. 2.3 - 1.8.

• I am beginning to sketch my own number line jottings to subtract decimal numbers on either side of a whole number.

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<mark>ک</mark> %	+ ?	$= x \ cm^3 \ \frac{1}{2} \div \ \frac{1}{2} \ \frac{3}{2} \ m^2 \ x \ \frac{3}{2} \ \frac{3}{2} \ \frac{3}{2} \ m^2 \ x \ \frac{3}{2} \$	⅓ +								
*	Investigation										
т <sup>2</sup>	1.	Use counting up to work out	- 11								
<b>^</b>		9.8 – 7.65. Keep a note of both the subtraction and the answer.	× CIII								
3	2.	Now work out 8.7 – 6.54. Keep a note	3 1/2								
40		of the subtraction and your answer.	-1-								
3 1/2	3.	Carry on this pattern of subtractions, 7.6 – 5.43, 6.5 – 4.32, 5.4 – 3.21, making	**								
k cm		a record of all your subtractions and their answers.	w V								
"		Can you predict the answer to the	Э								
•1•		next subtraction? Image: Constraint of the sequence of the seque	*								
*		subtractions gives such a pattern?	~								
т <mark>3</mark>	4.	Now try 12.3 – 4.56 23.4 – 5.67	5%								
1		34.5 – 6.78 and so on.	1								
≥%		What happens this time? This is a harder pattern to explain! Look at how the whole number parts of the pair of numbers in each subtraction	cm 3								
× ~	are increasing, and then how the decimal parts are increasing.										
*	Investigate your own sequences of subtractions with consecutive digits, e.g. 9.87 – 6.5										
m²		8.76 – 5.4 7.65 – 4.5	Cm								
^		For this sequence, you can use place value to subtract rather than counting up. See what other patterns you can find. Why do you think they occur?	8 V2								
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3 1/2			v								
k cm			H,								
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۷	+ ?	$= x \ cm^3 \ \frac{1}{2} \div E^{\frac{1}{3}} > m^2 + \% < \frac{5}{6} - cm^2 + \div$	⅓								