





MathShed

Year 5
Summer Block 1: Decimals

Lesson 5: To be able to add numbers with the same number of decimal places



Term: Summer

Unit: Block 1 – Decimals

Lesson: 5

To be able to add numbers with the same number of decimal places

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Starter:


Fill in the blanks for the representations below. What's the same? What's different?

1.2 1.3

1.4 1.1







Explain your answer.

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Activity 1:

Use a place value chart and counters to help complete the following calculation:

ones	tenths	hundredths
		
		

	o	t	h
	4	5	4
+	4	7	5
	.		

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Activity 2:

Use the column method to solve the following:

	o	t	h	
	3	.	2	7
+	3	.	4	5
		.		

	o	t	h	
	4	.	3	9
+	3	.	5	7
		.		




	o	t	h	
	5	.	6	8
+	3	.	3	8
		.		

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Activity 3:

Jamal buys three of the following items at the shops.

			
£4.54	£5.87	£3.95	£7.36

What's the greatest amount he might spend?
What's the smallest amount he might spend?
Explain your answer.

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Activity 4:

Chen uses the following strategy to add two numbers that have similar differences to the same whole number.

$$\begin{array}{c} \text{+ 0.1} \\ \text{4 + 4 = 3.9 + 4.1} \\ \text{– 0.1} \end{array}$$

$$\begin{array}{c} \text{+ 0.15} \\ \text{4 + 4 = 3.85 + 4.15} \\ \text{– 0.15} \end{array}$$

Create your own calculations similar to Chen's using 5 as the corresponding whole number.

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Activity 5:

Using each digit card (0–9) only once within the two addends, complete the calculation in as many ways as you can.

What is the greatest possible sum?
What is the smallest possible sum?
Explain your answer.

	T	O	t	h	
+					



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Evaluation:

I have used the column method to solve $9.62 + 7.31$



	T	O	t	h	
		9	6	2	
+		7	3	1	
	1	6	7	5	
	1				

Astrobee has made a mistake.

Identify the mistake and explain how it can be corrected.