# Year 5: Week 9 day 1.

# Decimals: Multiply and divide by 10, 100 and 1000

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.	Ro						otraction and hund	of numbe Iredth.	ers with 3	decim	al pl
	They come from our <i>PowerPoint</i> slides.	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
								Sketch a	line from 2	t.3 to 2.4.	1	

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?

Have I mastered the topic? A few questions to

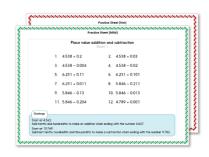
Check your understanding.

Fold the page to hide the answers!



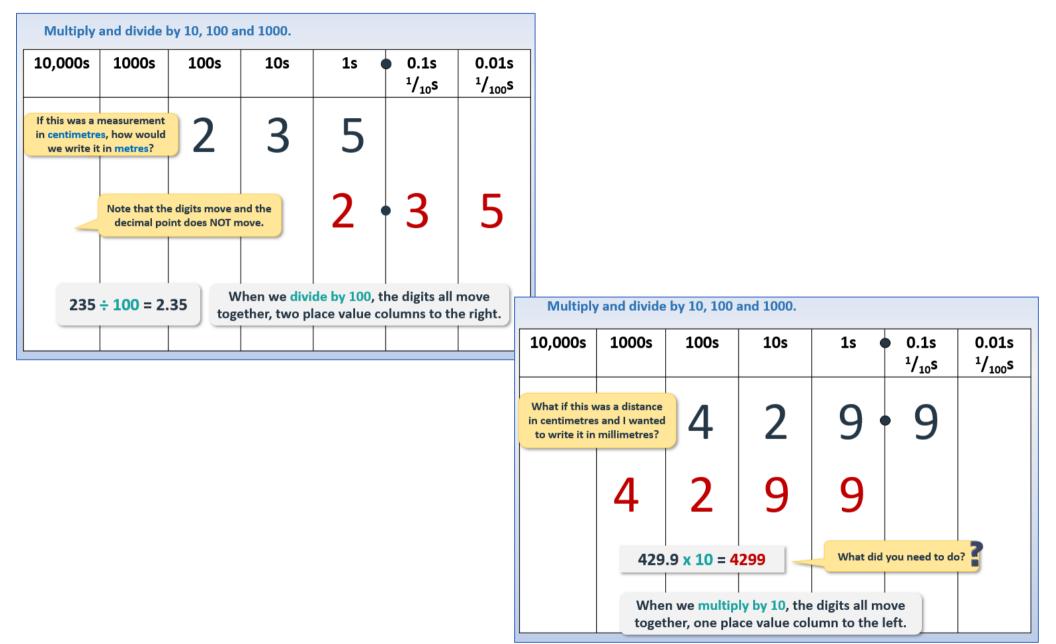
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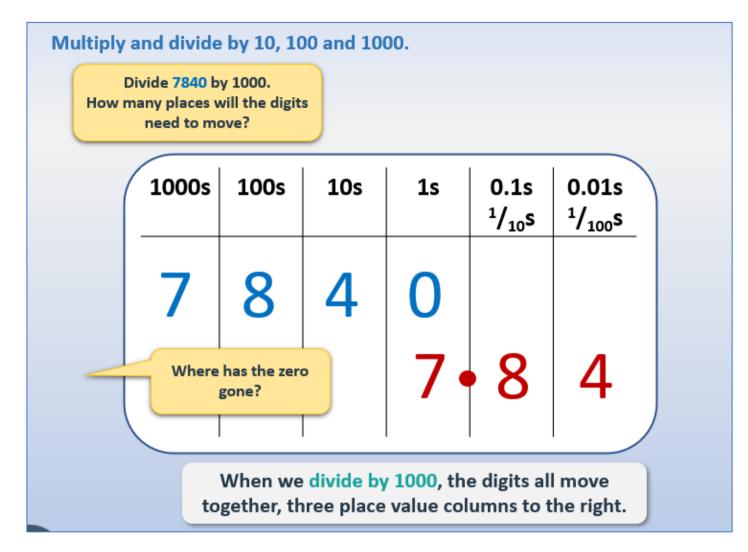




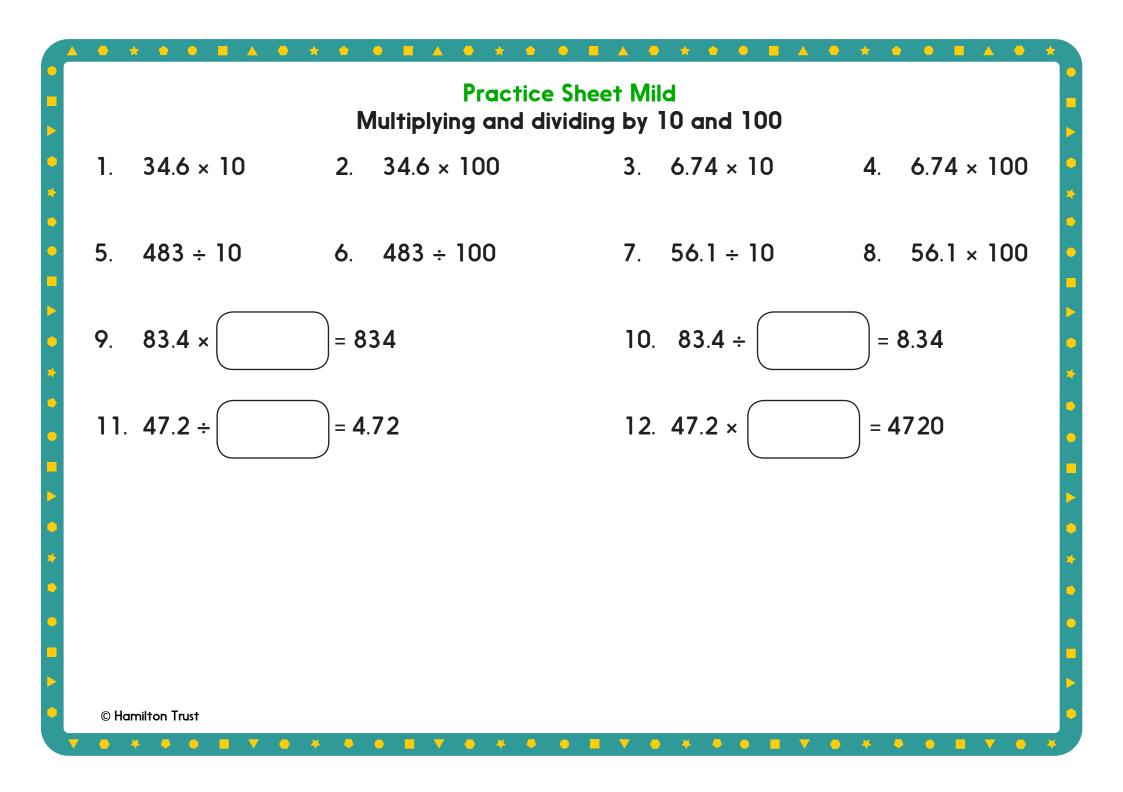
### **Learning Reminders**

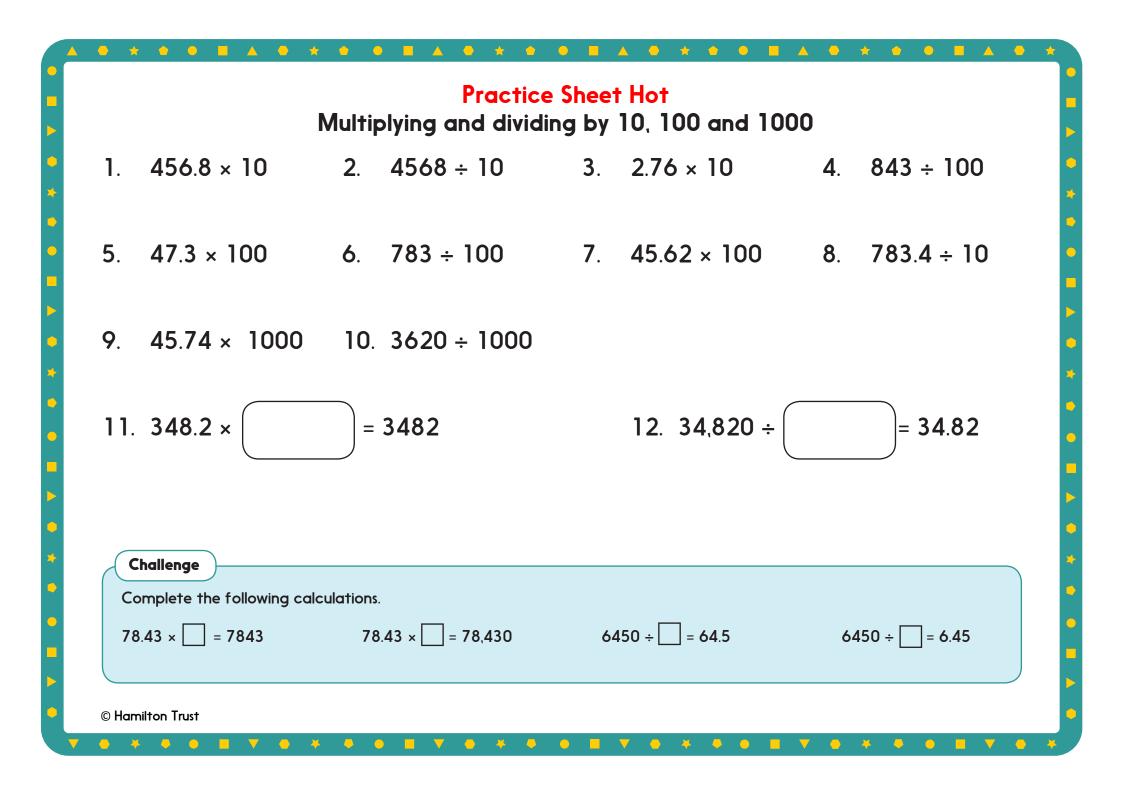


### **Learning Reminders**

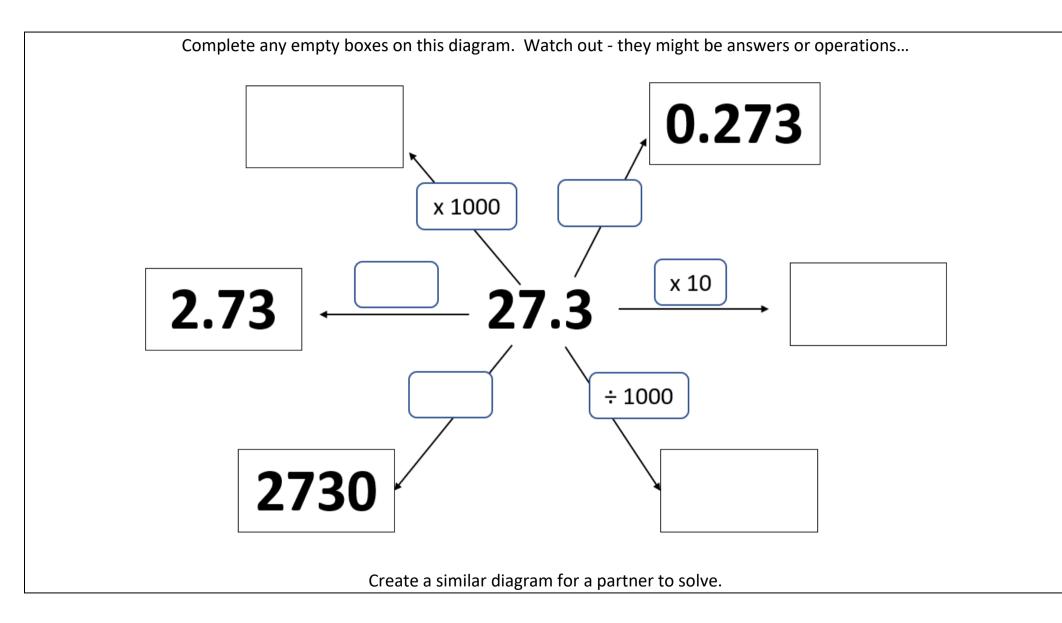


When we multiply by 10, 100 and 1000, the digits all move together, one, two, or three place value columns to the left. When we divide by 10, 100 and 1000, the digits all move together, one, two, or three place value columns to the right.





## **Extra Practice for All**



# **Practice Sheets Answers**

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#### Multiplying and dividing by 10 and 100 (mild)

1. 34.6 × 10 = 346	2. 34.6 × 100 = 3460	3. 6.74 × 10 = 67.4
4. 6.74 × 100 = 674	5. 483 ÷ 10 = 48.3	6. 483 ÷ 100 = 4.83
7. 56.1 ÷ 10 = 5.61	8. 56.1 × 10 = 561	9. 83.4 × 10 = 834
10. 83.4 ÷ 10 = 8.34	11. 47.2 ÷ 10 = 4.72	12. 47.2 × 100 = 4720

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#### Multiplying and dividing by 10, 100 and 1000 (hot)

1. 456.8 × 10 = 4568	2. 4568 ÷ 10 = 456.8	3. 2.76 × 10 = 27.6
4. 843 ÷ 100 = 8.43	5. 47.3 × 100 = 4730	6. 783 ÷ 100 = 7.83
7. 45.62 × 100 = 4562	8. 783.4 ÷ 10 = 78.34	9. 45.74 × 1000 = 45740
10. 3620 ÷ 1000 = 3.62	11. 348.2 × 10 = 3482	12. 34,820 ÷ 1000 = 34.82
<b>Challenge</b> 78.43 × 100 = 7843 6450 ÷ 100 = 64.5	78.43 × 1000 = 78,430 6450 ÷ 1000 = 6.45	

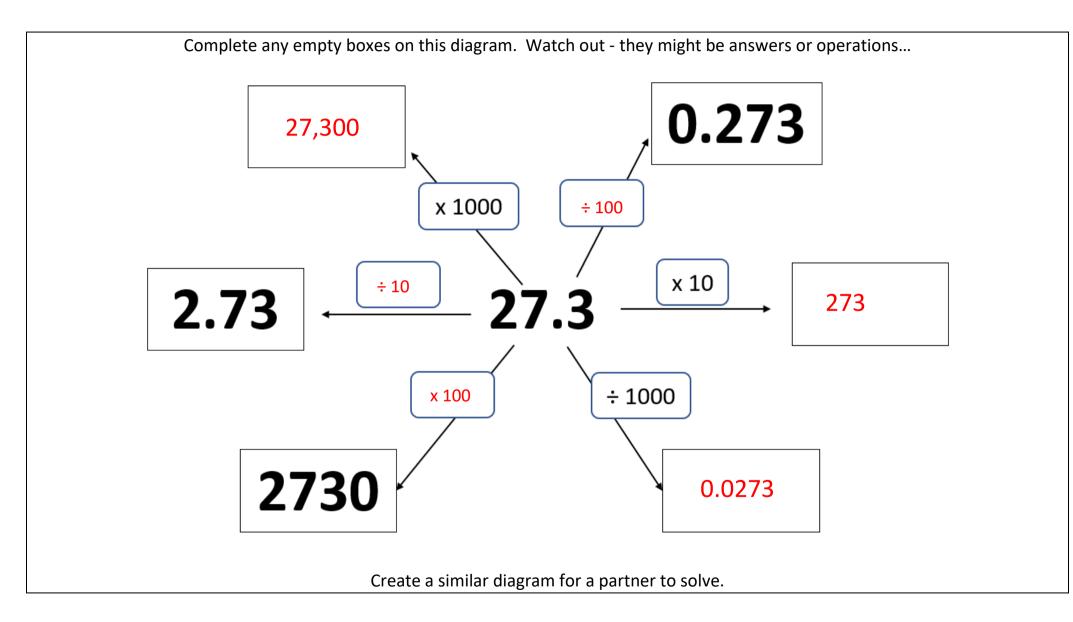
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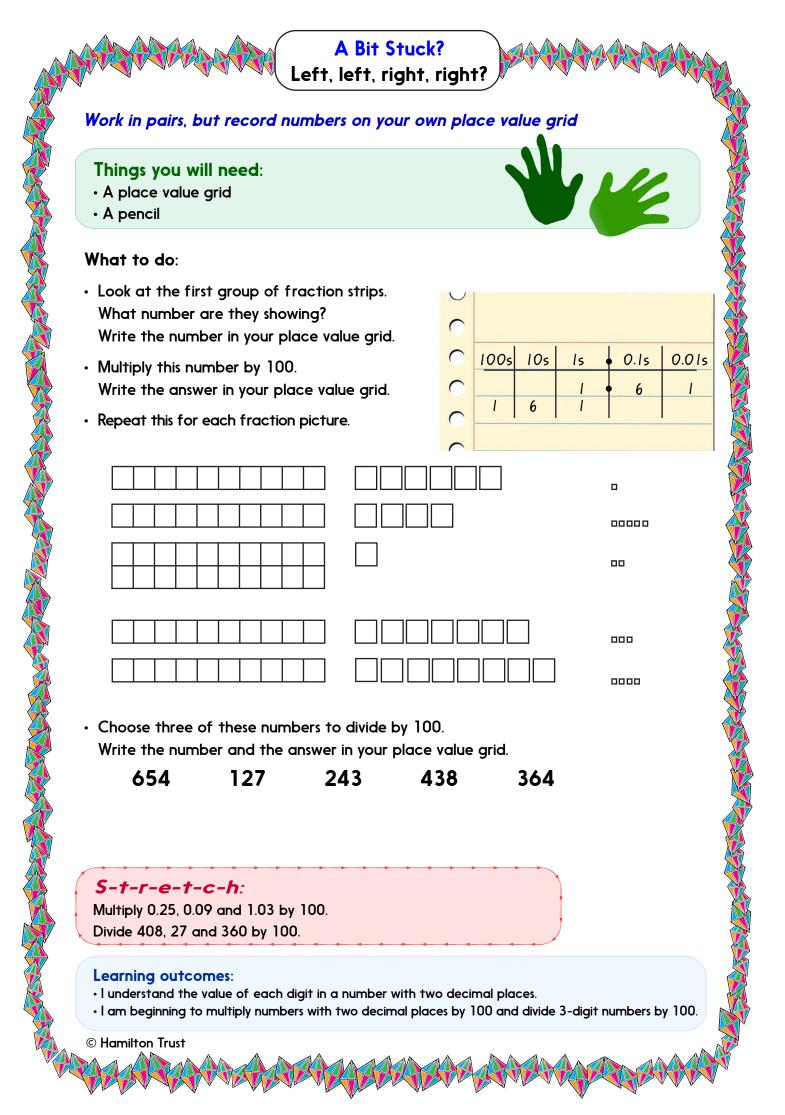
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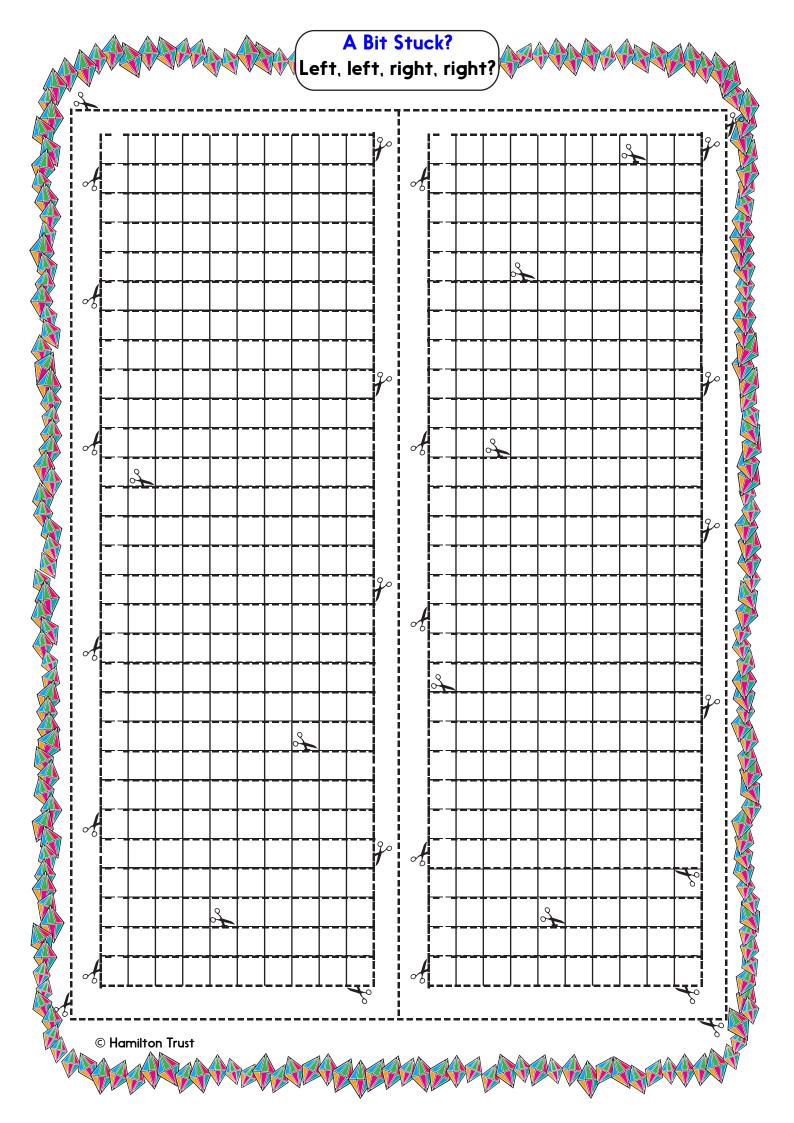
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### **Extra Practice for All Answers**









100s	10s	]s	0.1s	0.01s
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## Check your understanding Questions

Divide 47,310 by 10 repeatedly until you get a number that is less than 100. Write that number.

Fill the empty boxes 0.15 = 1.5 10		× 100	÷ 100 = 4.7	10.08 = 📄 ÷ 1000
Write the next two 0.41 4.1	numbers in each sequ	ence.		
2.05 20.5				
43,020 4302				
True or false? 4030 ÷ 100 = 43	1.09 x 100 = 190	0.09 x 1	.0 = 0.97000 ÷ 1000	) = 0.7

Fold here to hide answers

## Check your understanding Answers

Divide 47,310 by 10 repeatedly until you get a number that is less than 100. Write that number. 47.31

Each time the number is divided by 10, the digits move one place value column to the right: 47,310

4731

473.1

47.31

Fill the empty l	boxes:					
0.15 = 1.5 ÷	10 520	9 = 52.09	x 100	470 ÷ 100 = 4.7	10.08 = 10,080	÷1000

Write the next two numbers in each sequence.
0.41 4.1 41 410 (Multiplying by 10)
2.05 20.5 205 2050 (Multiplying by 10)
43,020 4302 430.2 43.02 (Dividing by 10)

True or false?	
4030 ÷ 100 = 43	False – should be 40.3
1.09 x 100 = 190	False – should be 109
0.09 x 10 = 0.9	True
7000 ÷ 1000 = 0.7	False – should be 7