

## Maths - Planning and Ideas Week Commencing: 4<sup>th</sup> May 2020 – Decimals



### Year Groups: 5

**Note: When/If using the White Rose Maths website for the videos, the days on the website don't correspond with the real date. Look at the title of the lesson and the week number written in the plan to locate the lesson. You may need to scroll right the way down to the bottom of the page to find them. If anyone is struggling to find the videos or needs any help with this, please get in touch. Thanks! Miss Todd.**

**Starter Times Table Rockstars Link - <https://trockstars.com/>**

**White Rose Maths Link <https://whiterosemaths.com/homelearning/year-5/>**

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Can you add decimals within 1?	Can you subtract decimals within 1?	Can you find decimals which make one?	Can you add decimals crossing the whole?	No Lesson
Activity	<p><b>Starter</b> : Times Table Rockstars.  <b>Main Teaching:</b>                      Watch the video in 'Lesson 1 – Adding decimals within 1' located within 'Summer Term Week 1 wc 20 April' in the tab at the top.                      Ensure your child understands the value of each heading of the column (eg. tenths not tens etc). If your child finds it easier, feel free to complete the calculations as column additions but make sure they put the decimal point in the correct place.  <b>Activity</b>                      Have a go at the questions on the worksheets below. Questions 5-7 are quite tricky. The answers are included below.</p>	<p><b>Starter</b> : Times Table Rockstars.  <b>Main Teaching:</b>                      Watch the video in 'Lesson 2 – Subtracting decimals within 1' located within 'Summer Term Week 1 wc 20 April' in the tab at the top.                      This lesson is similar to yesterday but the focus is on subtracting rather than adding decimals under one.  <b>Activity</b>                      Complete the worksheet (questions 1-4). If your child would like to have a go at the Dive Deeper questions, I have included those too. Answers are included below.</p>	<p>Starter : Times Table Rockstars.  <b>Main Teaching:</b>                      Watch the video in 'Lesson 3 – Complements to 1' located within 'Summer Term Week 1 wc 20 April' in the tab at the top. Ignore the parts where it says, 'Have a go at questions...' etc. as all of the questions are not included.                      Today, children have to find pairs of decimals which add together to make one whole. Children need a clear understanding of how many tenths make a whole one and how many hundredths make a whole one etc.  <b>Activity</b>                      Complete the worksheet where the children have to add the decimals using the pictures to make a whole. Answers included.</p>	<p>Starter : Times Table Rockstars.  <b>Main Teaching:</b>                      Watch the video in 'Lesson 4 – Adding Decimals Crossing the Whole' located within 'Summer Term Week 1 wc 20 April' in the tab at the top.                      Today, children are challenged to add decimals where the answer is above one whole.  <b>Activity</b>                      Complete the worksheet where children practise adding decimals using column addition.                      The problem solving question on the right hand side of the worksheet is more difficult.                      Answers included.</p>	

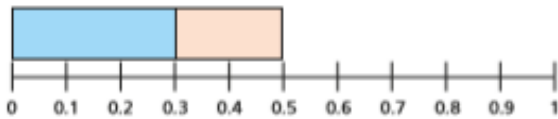
Monday (two worksheets)

# Adding decimals within 1

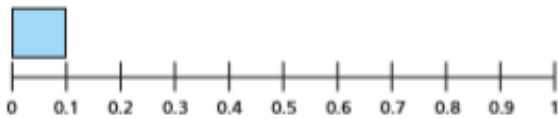


**1** Work out the additions.  
Use the number lines to help you.

a)  $0.3 + 0.2 = \square$



b)  $0.1 + 0.4 = \square$



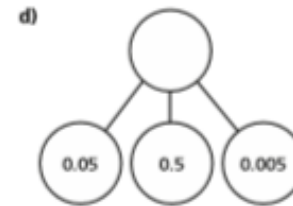
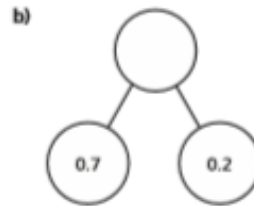
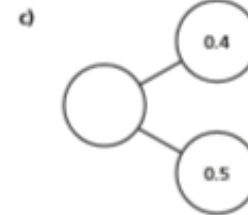
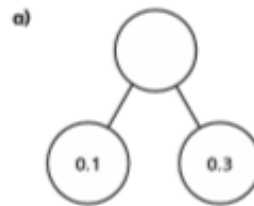
c)  $0.2 + 0.1 + 0.2 = \square$



What do you notice about your answers?



**2** Complete the part-whole models.



**3** Complete the additions.  
Use the place value charts to help you.

a)  $0.42 + 0.3 = \square$

Ones	Tenths	Hundredths
+		

b)  $0.28 + 0.32 = \square$

Ones	Tenths	Hundredths
+		



4 Use the column method to work out the additions.

a)

		0	•	4	2
	+	0	•	3	
		<hr/>			
			•		
		<hr/>			

d)

		0	•	4	2
	+	0	•	0	3 3
		<hr/>			
			•		
		<hr/>			

b)

		0	•	0	4
	+	0	•	3	3
		<hr/>			
			•		
		<hr/>			

e)

		0	•	4	3 6
	+	0	•	1	7
		<hr/>			
			•		
		<hr/>			

c)

		0	•	4	0 2
	+	0	•	0	3
		<hr/>			
			•		
		<hr/>			

f)

		0	•	7	5 1
	+	0	•	0	9
		<hr/>			
			•		
		<hr/>			

5 Jack has set up a column addition to work out  $0.19 + 0.07$

What mistake has Jack made?

		0	•	1	9
	+	0	•	7	
		<hr/>			
			•		
		<hr/>			

6 Work out 7 hundredths + 34 hundredths.

Give your answer as a decimal.

7 hundredths + 34 hundredths =

7 Eva drinks a quarter of a litre of water.  
Mo drinks 0.3 litres of water.  
Whitney drinks a tenth of a litre more water than Mo.  
How much water do Eva, Mo and Whitney drink altogether?

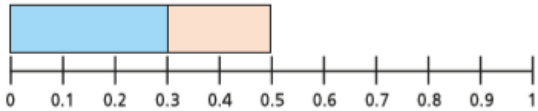


## Monday Answers

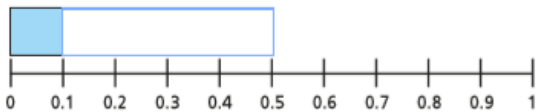
1 Work out the additions.

Use the number lines to help you.

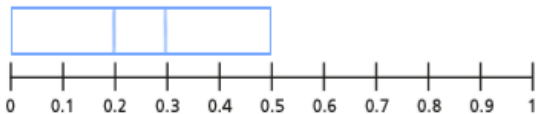
a)  $0.3 + 0.2 = 0.5$



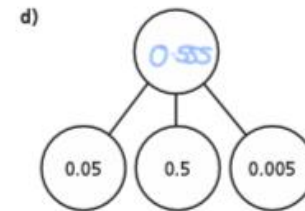
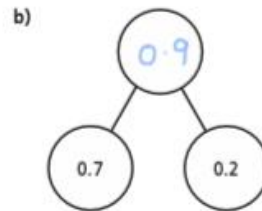
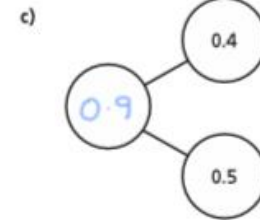
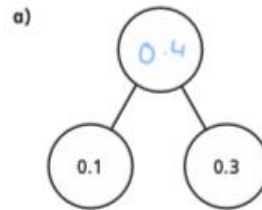
b)  $0.1 + 0.4 = 0.5$



c)  $0.2 + 0.1 + 0.2 = 0.5$



2 Complete the part-whole models.



3 Complete the additions.

Use the place value charts to help you.

a)  $0.42 + 0.3 = 0.72$

Ones	Tenths	Hundredths

b)  $0.28 + 0.32 = 0.6$

Ones	Tenths	Hundredths

4 Use the column method to work out the additions.

a)

		0	4	2	
	+	0	3		
		0	7	2	

d)

		0	4	2	
	+	0	0	3	3
		0	4	5	3

b)

		0	0	4	
	+	0	3	3	
		0	3	7	

e)

		0	4	3	6
	+	0	1	7	
		0	6	0	6

c)

		0	4	0	2
	+	0	0	3	
		0	4	3	2

f)

		0	7	5	1
	+	0	0	9	
		0	8	4	1

6 Add together 7 hundredths and 34 hundredths.

Give your answer as a decimal.

7 hundredths + 34 hundredths = 0.41

7 Eva drinks a quarter of a litre of water.

Mo drinks 0.3 litres of water.

Whitney drinks a tenth of a litre more water than Mo.

How much water do Eva, Mo and Whitney drink altogether?

Eva 0.25L  
 Mo 0.3 L  
 Whitney 0.4 L



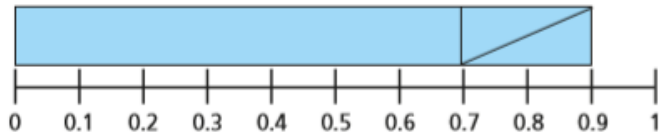
0.95L

Tuesday worksheets

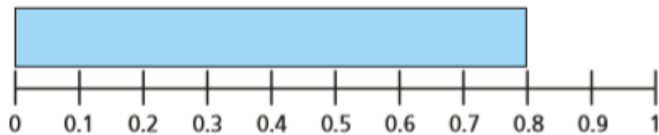
1 Work out the subtractions.

Use the number lines to help you.

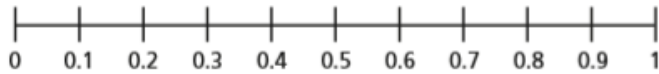
a)  $0.9 - 0.2 =$



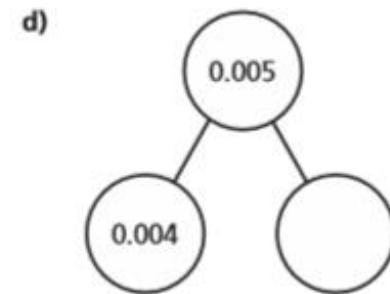
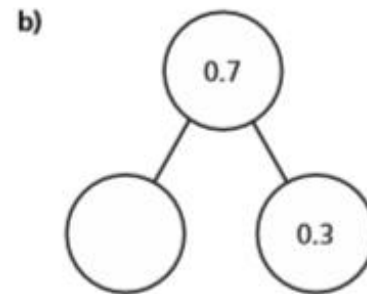
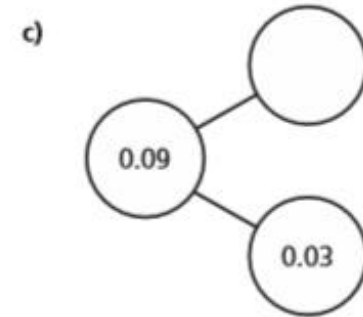
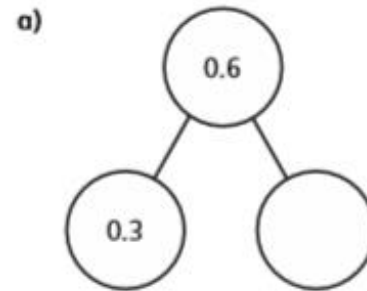
b)  $0.8 - 0.1 =$



c)  $1 - 0.2 - 0.1 =$



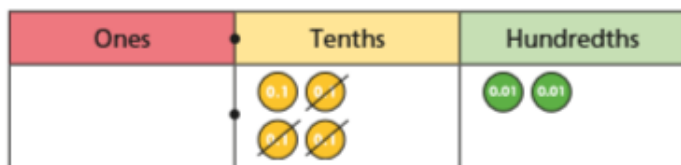
2 Complete the part-whole models.



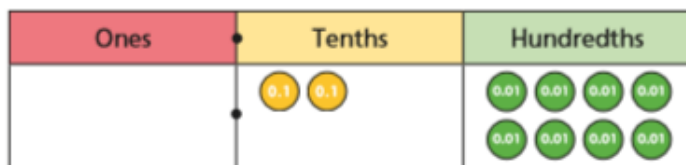
3 Complete the subtractions.

Use the place value charts to help you. The first one has been started for you.

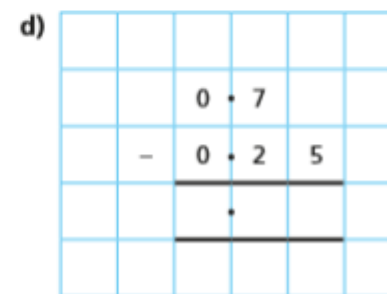
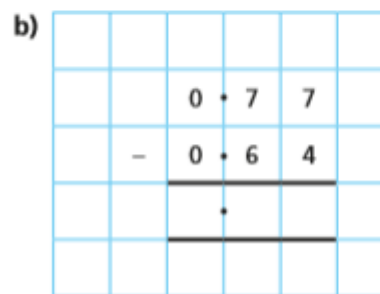
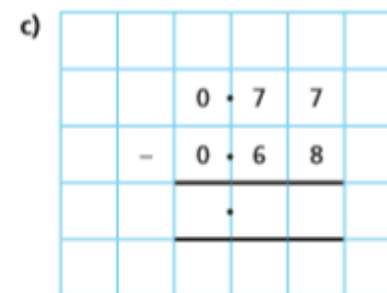
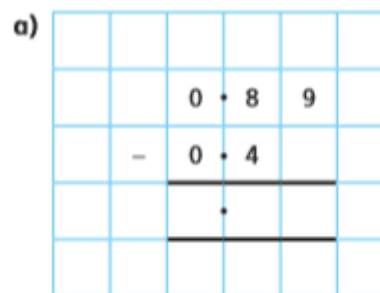
a)  $0.42 - 0.3 = \square$



b)  $0.28 - 0.05 = \square$



4 Use the column method to work out the subtractions.

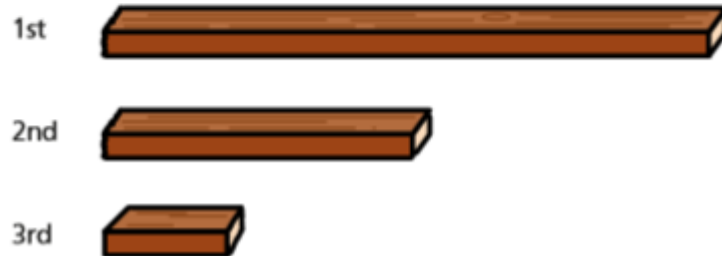


Tuesday – Dive Deeper Questions (optional)

- 6 Find the difference between 53 hundredths and 8 tenths.  
Give your answer as a decimal.

The difference between 53 hundredths and 8 tenths is

- 7 A piece of wood is 0.9 metres long.  
It is cut into 3 unequal pieces.  
The first piece is 0.2 metres longer than the second piece.  
The third piece is 23 hundredths of a metre shorter than the second piece.



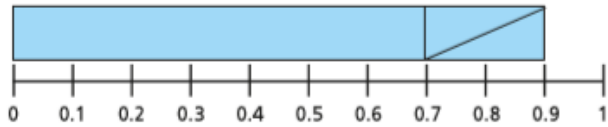
How long is each piece of wood?



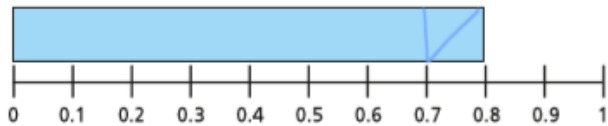
Tuesday answers

- 1 Work out the subtractions.  
Use the number lines to help you.

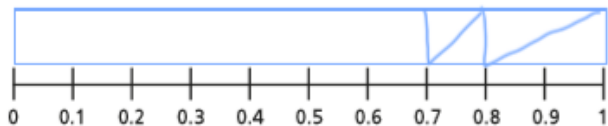
a)  $0.9 - 0.2 = 0.7$



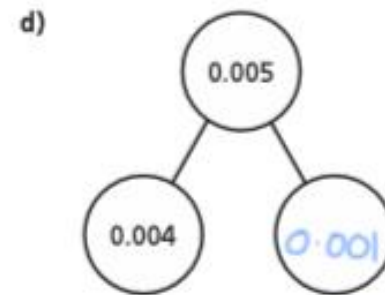
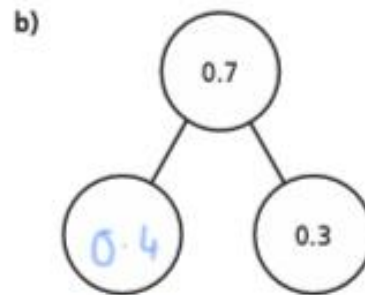
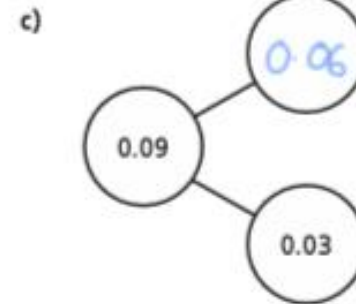
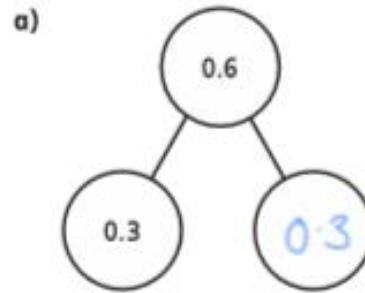
b)  $0.8 - 0.1 = 0.7$



c)  $1 - 0.2 - 0.1 = 0.7$



- 2 Complete the part-whole models.



3

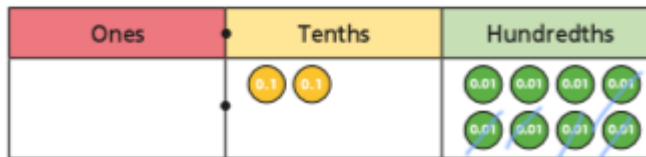
Complete the subtractions.

Use the place value charts to help you. The first one has been started for you.

a)  $0.42 - 0.3 =$



b)  $0.28 - 0.05 =$



4

Use the column method to work out the subtractions.

a)
 

		0	8	9
	-	0	4	
		<hr/>	<hr/>	<hr/>
		0	4	9

c)
 

		0	7	7	
		-	0	6	8
			<hr/>	<hr/>	<hr/>
		0	0	9	

b)
 

		0	7	7	
		-	0	6	4
			<hr/>	<hr/>	<hr/>
		0	1	3	

d)
 

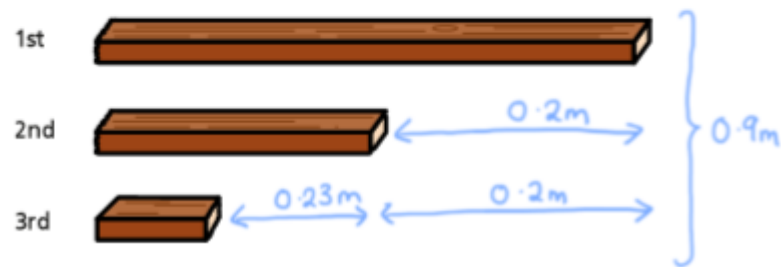
		0	7	0	
		-	0	2	5
			<hr/>	<hr/>	<hr/>
		0	4	5	

Tuesday Dive Deeper Answers

- 6 Find the difference between 53 hundredths and 8 tenths.  
Give your answer as a decimal.

The difference between 53 hundredths and 8 tenths is

- 7 A piece of wood is 0.9 metres long.  
It is cut into 3 unequal pieces.  
The first piece is 0.2 metres longer than the second piece.  
The third piece is 23 hundredths of a metre shorter than the second piece.



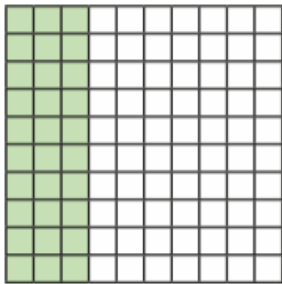
How long is each piece of wood?

Wednesday worksheet

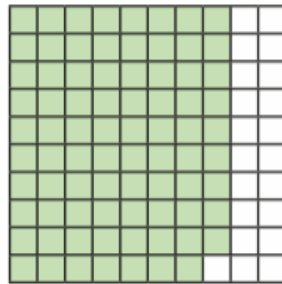
Each hundred square represents one whole.

Use the hundred squares to help you complete the additions.

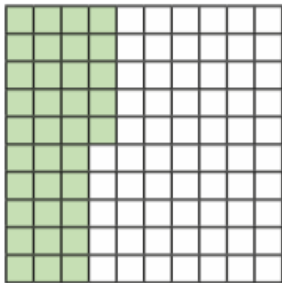
a)  $0.3 + \square = 1$



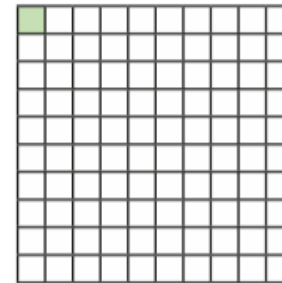
c)  $1 = \square + 0.79$



b)  $0.35 + \square = 1$



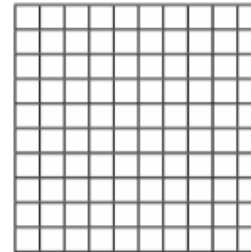
d)  $\square + 0.01 = 1$



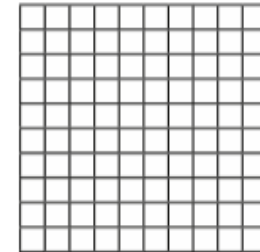
Complete the calculations.

Shade the hundred squares to help you.

a)  $1 = 0.47 + \square$



b)  $0.02 + 0.2 + \square = 1$



Match the pairs of decimals that add together to make 1 whole.

0.12

0.988

0.21

0.79

0.212

0.778

0.012

0.788

0.222

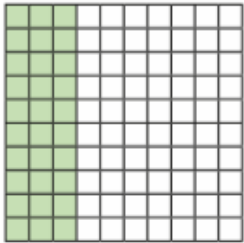
0.88

Wednesday answers

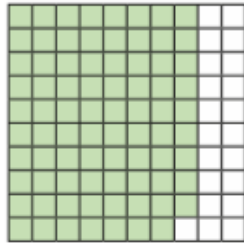
Each hundred square represents one whole.

Use the hundred squares to help you complete the additions.

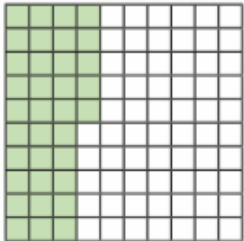
a)  $0.3 + 0.7 = 1$



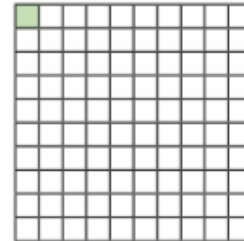
c)  $1 = 0.21 + 0.79$



b)  $0.35 + 0.65 = 1$



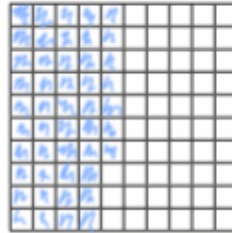
d)  $0.99 + 0.01 = 1$



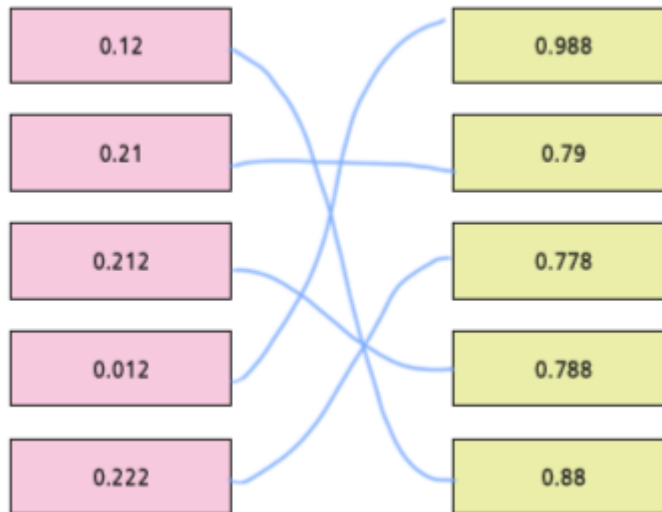
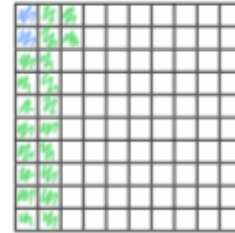
Complete the calculations.

Shade the hundred squares to help you.

a)  $1 = 0.47 + 0.53$



b)  $0.02 + 0.2 + 0.78 = 1$



Thursday worksheet

a)

		0	•	4	2
	+	0	•	6	9
			•		

b)

		0	•	4	1
	+	0	•	7	
			•		

c)

		0	•	9	6
	+	0	•	9	7
			•		

a)

			0	•	3	
	+	0	•	8	0	4
				•		

e)

		0	•	2	2	2
	+	0	•	8	7	6
			•			

f)

			0	•	5
	+	0	•	7	7
			•		

g)

			0	•	7	5	1
	+	0	•	3	2		
				•			

n)

			0	•	6	0	4
	+	0	•	5	1	9	
				•			

Challenge question

Ron buys all these items plus a drink costing ninety-five pence.

How much does Ron spend in total?



Ron spends £  in total.

a)

		0	4	2
	+	0	6	9
		<hr/>		
		1	1	1
		<hr/>		
		1		

e)

		0	2	2	2
	+	0	8	7	6
		<hr/>			
		1	0	9	8
		<hr/>			
		1			

b)

		0	4	1
	+	0	7	
		<hr/>		
		1	1	1
		<hr/>		
		1		

f)

		0	5	
	+	0	7	7
		<hr/>		
		1	2	7
		<hr/>		
		1		

c)

		0	9	6
	+	0	9	7
		<hr/>		
		1	9	3
		<hr/>		
		1		

g)

		0	7	5	1
	+	0	3	2	
		<hr/>			
		1	0	7	1
		<hr/>			
		1			

d)

			0	3	
	+	0	8	0	4
		<hr/>			
		1	1	0	4
		<hr/>			
		1			

h)

		0	6	0	4
	+	0	5	1	9
		<hr/>			
		1	1	2	3
		<hr/>			
		1			

Ron buys all these items plus a drink costing ninety-five pence.  
How much does Ron spend in total?



Ron spends £  in total.