

# RECALL – SUBTRACTING TU - TU

Alex has 99p and buys one piece of fruit.  
Use column subtraction to work out the change he would get.

3 BEFORE ME



Subtract the units (pence)  
first then the tens (pence).



£0.12



£0.23



£0.35



£0.57



£0.81

$$\begin{array}{r} 99 \\ - 12 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ - 35 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ - 81 \\ \hline \end{array}$$

If Alex had £0.55 and bought one of these fruits,  
what would you need to do differently?



Solve using column subtraction.  
Write an explanation.



£0.16



£0.28



£0.39

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Alex has 99p and buys one piece of fruit.  
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$$\begin{array}{r} 9 \phantom{0} \\ - 1 \phantom{0} \\ \hline 8 \phantom{0} \end{array} \quad \begin{array}{r} 9 \phantom{0} \\ - 2 \phantom{0} \\ \hline 7 \phantom{0} \end{array}$$

$$\begin{array}{r} 9 \phantom{0} \\ - 2 \phantom{0} \\ \hline 7 \phantom{0} \end{array} \quad \begin{array}{r} 9 \phantom{0} \\ - 3 \phantom{0} \\ \hline 6 \phantom{0} \end{array}$$

$$\begin{array}{r} 9 \phantom{0} \\ - 3 \phantom{0} \\ \hline 6 \phantom{0} \end{array} \quad \begin{array}{r} 9 \phantom{0} \\ - 5 \phantom{0} \\ \hline 4 \phantom{0} \end{array}$$

$$\begin{array}{r} 9 \phantom{0} \\ - 5 \phantom{0} \\ \hline 4 \phantom{0} \end{array} \quad \begin{array}{r} 9 \phantom{0} \\ - 7 \phantom{0} \\ \hline 2 \phantom{0} \end{array}$$

$$\begin{array}{r} 9 \phantom{0} \\ - 8 \phantom{0} \\ \hline 1 \phantom{0} \end{array} \quad \begin{array}{r} 9 \phantom{0} \\ - 1 \phantom{0} \\ \hline 8 \phantom{0} \end{array}$$

If Alex had £0.55 and bought one of these fruits,  
what would you need to do differently?

**EXCHANGE**

Solve using column subtraction.  
Write an explanation.



£0.16



£0.28



£0.39

# LO: I CAN SUBTRACT IN POUNDS (£) AND PENCE (P) USING COLUMN SUBTRACTION

Page

# MODELLED EXAMPLE

Max visits a fruit and veg shop with £4.99.



A bag of potatoes cost £2.24.



How much change will Max need?

£ 4.99 - £2.24 =

Use coins or draw it out.














### Working it out - place value mat



Sofia needs **£2.75** change back.

### Working it out - column subtraction

Thousands (£)		Hundreds (£)			Tens (p)			Ones (p)		
										
2000p (£20)	1000p (£10)	500p (£5)	200p (£2)	100p (£1)	50p	20p	10p	5p	2p	1p
—		4	2		9	2		9	4	
£		2	.	7	5					

First, subtract the ones.  $9p - 4p = 5p$

Next, subtract the tens.  $90p - 20p = 70p$

Then, subtract the hundreds. £4 - £2 = £2

# GUIDED EXAMPLES

$$£5.48 - 3p$$

-	5	.	4	8
				3

---

$$£2.76 - 21p$$

-	2	.	7	6
			2	1

---

$$£4.85 - £2.10$$

-	4	.	8	5
	2		1	0

---

$$£15.62 - £3.01$$

-	1	5	.	6	2
		3		0	1

---

## EXCHANGE NEEDED

-	2	3	.	6	0
	1	1		3	2

---

### Remember



Subtract the ones first, then the tens. That will give you the pence (p) value.

Next, subtract the hundreds then any thousands. That will give you the pounds (£) value.

# INTELLIGENT PRACTICE



Use the coins.

## Subtracting pence



£1.46 - 5p

-	1	.	4	6
				5

\_\_\_\_\_

£7.38 - 14p

-	7	.	3	8
			1	4

\_\_\_\_\_

£16.79 - 35p

-	1	6	.	7	9
				3	5

\_\_\_\_\_

## Subtracting £ and p



£6.44 - £3.20

-	6	.	4	4
	3		2	0

\_\_\_\_\_

£9.68 - £7.61

-	9	.	6	8
	7		6	1

\_\_\_\_\_

## Subtracting £ and p



£13.50 - £11.40

-	1	3	.	5	0
	1	1		4	0

\_\_\_\_\_

£26.47 - £12.32

-	2	6	.	4	7
	1	2		3	2

\_\_\_\_\_

Solve £11.47 - 9.58.

Explain why you have placed each value in each column.  
Explain each step of the process used to solve it.




**VOCABULARY** - column, subtract, exchange, Ones, Tens, Hundreds, equals, pounds, pence.

# INTELLIGENT PRACTICE



Use the coins.

Subtracting pence 

£1.46 - 5p


1	.	4	6
-			5
<hr/>			
1	.	4	1

£7.38 - 14p

7	.	3	8
-		1	4
<hr/>			
7	.	2	4

£16.79 - 35p

1	6	.	7	9
-			3	5
<hr/>				
1	6	.	4	4


Subtracting £ and p 

£6.44 - £3.20

6	.	4	4
-		2	0
<hr/>			
3	.	2	4

£9.68 - £7.61

9	.	6	8
-		6	1
<hr/>			
2	.	0	7


Subtracting £ and p 

£13.50 - £11.40

1	3	.	5	0
-	1	1	4	0
<hr/>				
2	.	1	0	

£26.47 - £12.32

2	6	.	4	7
-	1	2	3	2
<hr/>				
1	4	.	1	5

Solve £11.47 - 9.58. = £1.89 

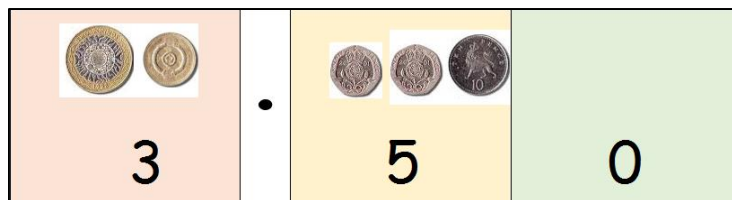
£	1	1	.	4	7
£	9	.	5	8	
<hr/>					
				9	
<hr/>					

£	1	1	.	4	7
£	9	.	5	8	
<hr/>					
			.	8	9
<hr/>					

£	1	1	.	4	7	
£	9	.	5	8		
<hr/>						
£			1	.	8	9
<hr/>						

# DIVE DEEPER

- 1  
a Lewis has £3.50 in his wallet.  
A bag of carrots cost £1.30.  
Cross the coins off the mat.



- b How much change will he get back?

$$\begin{array}{r} \text{£ } 3.50 \\ - \text{£ } 1.30 \\ \hline \end{array}$$

- 2 Solve in your maths book using the column subtraction method.

$$\text{£}3.64 - 3\text{p} = \text{£ } .$$

$$\text{£}5.75 - 43\text{p} = \text{£ } .$$

$$\text{£}8.83 - \text{£}2.31 = \text{£ } .$$

$$\text{£}18.48 - \text{£}12.27 = \text{£ } .$$

3

Show your column subtractions for each part in your book.

Olivia has £15.99 in her piggy bank.

On Monday, she pays to go bowling, which costs her £2.10.

How much does she have left?

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \text{£ } .$$



After paying, she goes to the reception desk to pay for shoe hire. This costs her £2.45. How much does she have left now?



$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \text{£ } .$$

2

4

A beef burger costs £3.35.

A portion of chips costs £2.45.

A drink of Pepsi Max costs £2.10.

How much change would I need if I paid with £8?



Show your column subtraction. Explain how you worked it out.

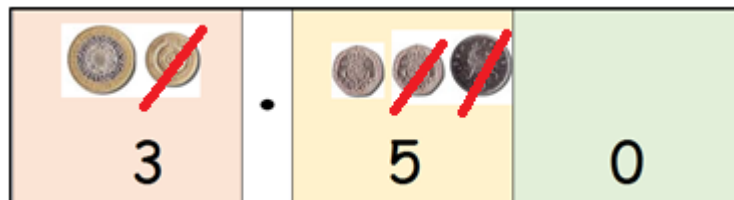
The answer is £17.54.

What could the subtraction question be?



# DIVE DEEPER

- 1  
a Lewis has £3.50 in his wallet.  
A bag of carrots cost £1.30.  
Cross the coins off the mat.



- b How much change will he get back?

$$\begin{array}{r} \pounds 3.50 \\ - \pounds 1.30 \\ \hline \pounds 2.20 \end{array}$$

- 2 Solve in your maths book using the column subtraction method.

$$\pounds 3.64 - 3\text{p} = \pounds 3.61$$

$$\pounds 5.75 - 43\text{p} = \pounds 5.32$$

$$\pounds 8.83 - \pounds 2.31 = \pounds 6.52$$

$$\pounds 18.48 - \pounds 12.27 = \pounds 6.21$$

3

Show your column subtractions for each part in your book.

Olivia has £15.99 in her piggy bank.

On Monday, she pays to go bowling, which costs her £2.10.

How much does she have left?



$$\pounds 15.99 - \pounds 2.10 = \pounds 13.89$$

After paying, she goes to the reception desk to pay for shoe hire. This costs her £2.45. How much does she have left now?



$$\pounds 13.89 - \pounds 2.45 = \pounds 11.44$$

4

Altogether is costs £7.90.  $\pounds 8.00 - \pounds 7.90 = \pounds 0.10$

$$\begin{array}{r} \pounds 8.100 \\ - \pounds 7.90 \\ \hline \pounds 0.10 \end{array}$$

$$\begin{array}{r} \pounds 8.100 \\ - \pounds 7.90 \\ \hline \pounds 0.10 \end{array}$$

# DIVE DEEPER 2

## Find Change



Jake bought an apple for 37p.  
He paid with this coin:



He was given some change:














Jake thinks he's been given the wrong change.

What do you think?

Explain your answer.

If Jake bought a banana for 42p instead,  
how much change would he get?  
What coins could he be given?

Thousands (£)		Hundreds (£)			•	Tens (p)			Ones (p)		
											
2000p (£20)	1000p (£10)	500p (£5)	200p (£2)	100p (£1)		50p	20p	10p	5p	2p	1p
					•						

Use your number bonds or a number line here too, if it helps you!

What if Jake paid with a £5 note.  
How much change would he get from  
buying the apple and the banana?



# DIVE DEEPER 2 ANSWERS

Use your number bonds or a number line here too, if it helps you!

## Find Change



Jake bought an apple for 37p.  
He paid with this coin:



He was given some change:



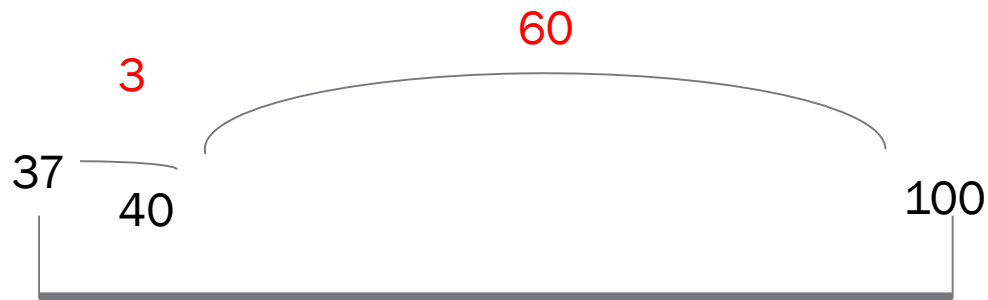
Jake thinks he's been given the wrong change.

What do you think?

Explain your answer.

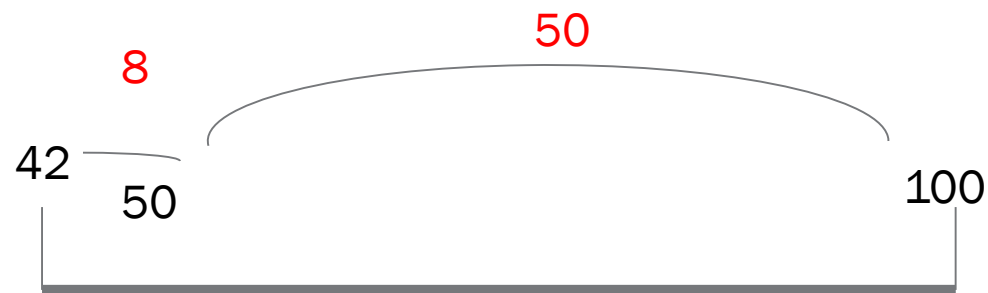
If Jake bought a banana for 42p instead,  
how much change would he get?

What coins could he be given?



63p change

The change is incorrect as he has been given 73p, which is 10p too much.



58p change

What if Jake paid with a £5 note.  
How much change would he get from  
buying the apple and the banana?

$$37 + 42 = 79p$$

$$£5.00 (500p) - 79p = £4.21$$

