Year 2 Maths: Find Change

Friday 22nd January 2021

EARNING

Today we are going to use our learning from the past few days to work out how to find change. There is a video to watch on our Remote Learning page and some tasks to complete in this file. I know you will be brilliant at this and I can't wait to see your work.

Fluency

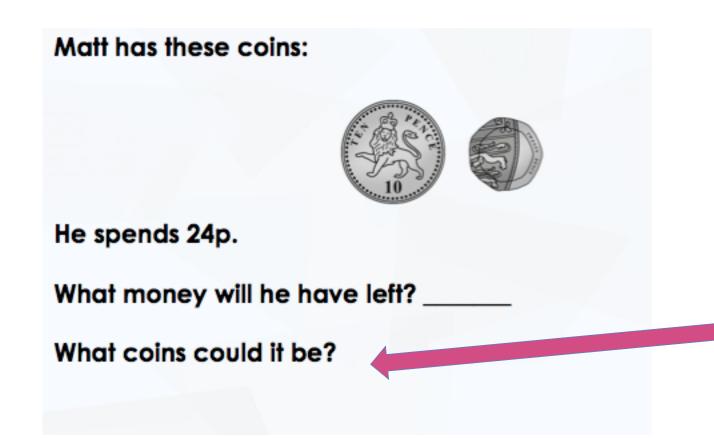
Complete the calculations

16 + = 20		37 + 54 =
40 + = 100		45 + 32 =
7 + = 20		76 - 43 =
70 + = 100	Talk to your grown up about any links you can see between these pairs of calculations.	38 - 29 =

Fluency Answers

	Complete the calculations	
		37 + 54 = <mark>9</mark> 1
16 + <mark>4</mark> = 20		45 + 32 = 77
40 + <mark>60</mark> = 100		76 – 43 = <mark>33</mark>
7 + <mark>13</mark> = 20		38 – 29 = <mark>9</mark>
70 + <mark>30</mark> = 100	Did you notice how we can use related facts to help us solve these calculated So $16 + 4 = 10$, $16 + 4 = 20$ and $40 + 100$. $7 + 3 = 10$; $7 + 13 = 20$ and $70 + 100$.	tions. 60 =

Anchor Task





There is more than one combination of coins that could be used.

Anchor Task

Matt has these coins:



He spends 24p.

What money will he have left? ____

What coins could it be?

5p, 1p OR 3 x 2p OR 6 x 1p or a combination of these coins.



Mrs Riley wants to buy an apple. What problem does she have?



Talk to your grown up about the cost of the apple and the coin that Mrs Riley has.

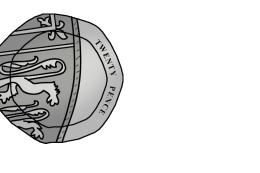
Explore

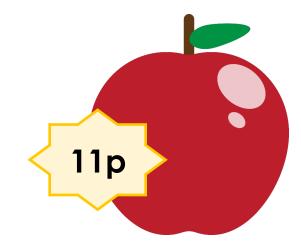
If Mrs Riley gives 20p to the shopkeeper she is paying too much.



Talk to your grown up about what will happen if Mrs Riley gives the shopkeeper a 20p coin to pay for something that only costs 11p.







This happens all the time. We often give a shopkeeper more money than the cost of what we want to buy. The shopkeeper then gives us some change.



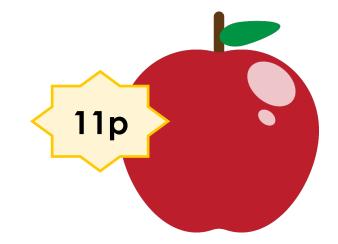
Explore

If Mrs Riley uses the 20p piece what change will she get?

What facts can you use to help you? Talk to your grown up about your ideas.



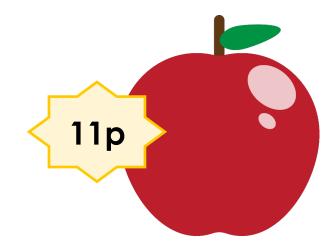






I can use my number bonds to 20 to help. I know 20 -11= 9, so 20p - 11p is 9p. I will have 9p change.









Mrs Riley wants to buys the pizza. She has £1 How much change will she need?



Let's begin by using what we know about £1. There are 100 pennies in \pounds 1. To work out change, I need to find the difference between the two amounts – 100 and 65p

Guided Practice

Let's write this as a subtraction. To solve it I must count on a number line. I could count on from 65p up to 100p or count back 65p from 100.

65p



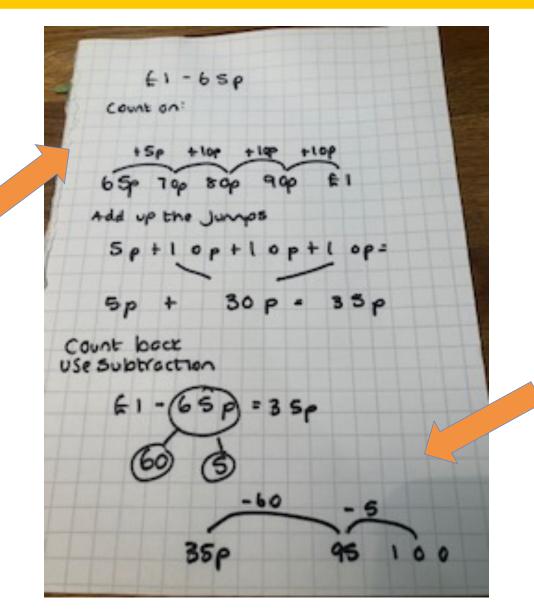
100p

Remember counting back is a subtraction A subtraction is another way of finding the difference.

65p

Guided Practice

We call counting on shopkeeper method. We start with the smallest amount, jump along the number line until we reach the largest amount then count the jumps.





When we count back, we write the biggest number at the end of our number line and jump back by the smaller amount. This is what we did on Wednesday.

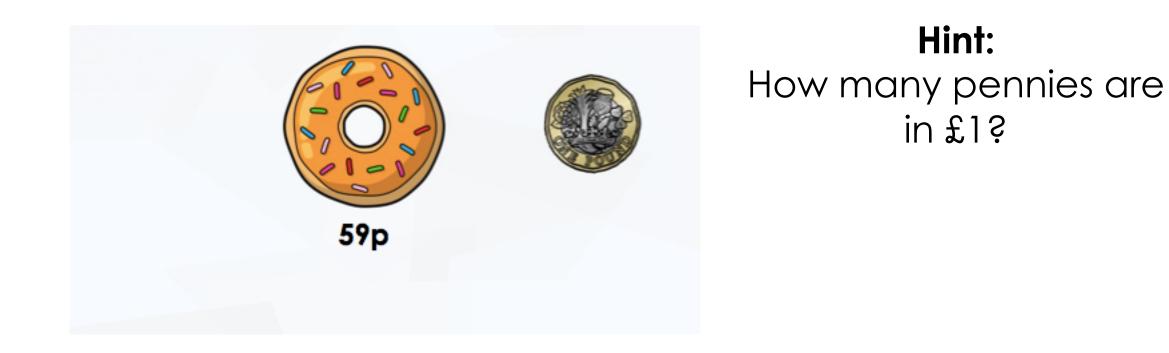
Guided Practice

So the difference between $\pounds 1$ (100p) and 65p is 35p. So if I pay for my slice of pizza with $\pounds 1$, I will be given 35p change.

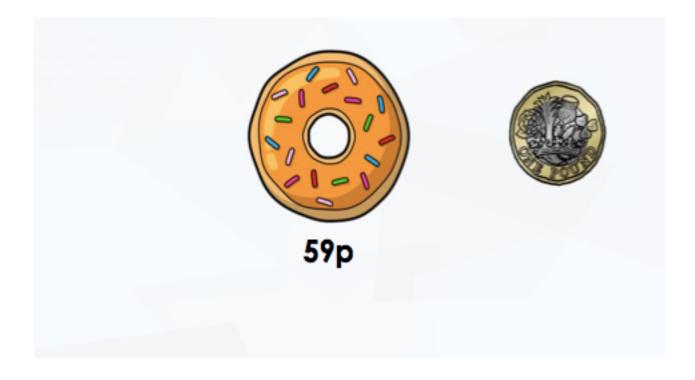


Independent Practice 1

How much change will Mrs Riley receive if she buys a doughnut for 59p



Review

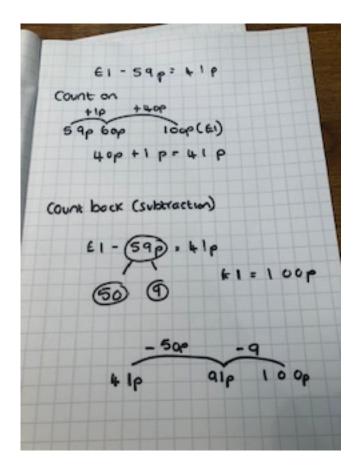


There are 100 pennies in £1 so you need to work out the difference between 59p and 100p. You can count on from 59p (shopkeeper method) or back from £1 (use your subtraction skills).

Review



$\pounds 1-59p = 41p$



Independent Task



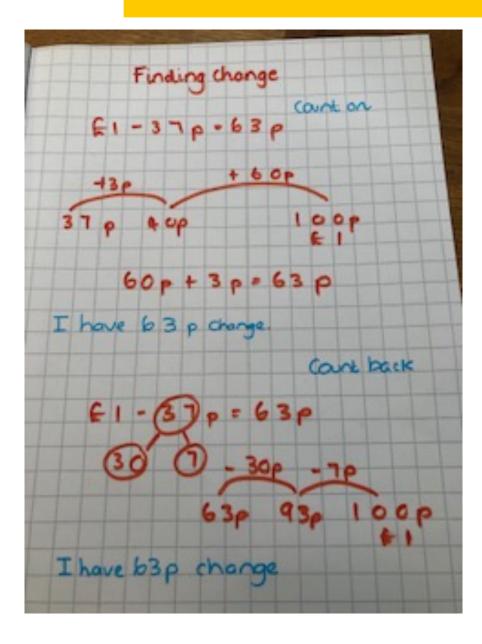
Choose an item from the shop. How much change will you have from £1?

Show how you have worked out your answers – see my example on the next page.

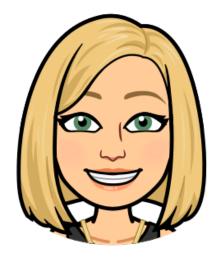


Check you have calculated the correct change by using the inverse operation – see my example in the video.

Example



Remember you can choose to count on (shopkeeper method) or count back. However, which ever way you choose, you must show all your working out.



Try this if you are finding things a little tricky

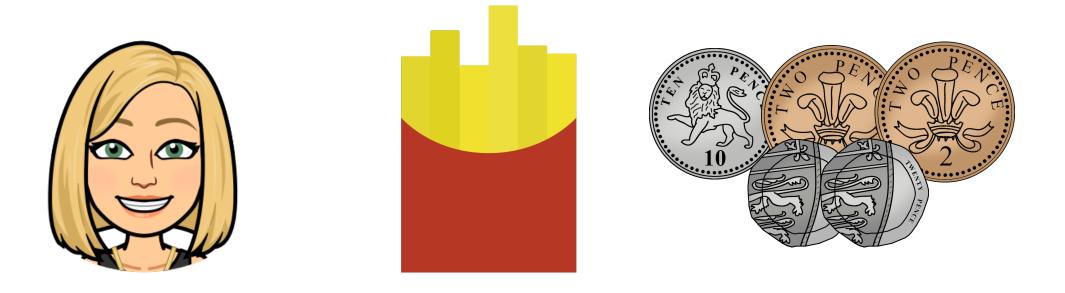


Choose an item from the shop. How much change will you have from 50p?

Show how you have worked out your answers.

Exit task – Dong Nao Jin

Mrs Riley had $\pounds 1$. She bought the chips and has this change.

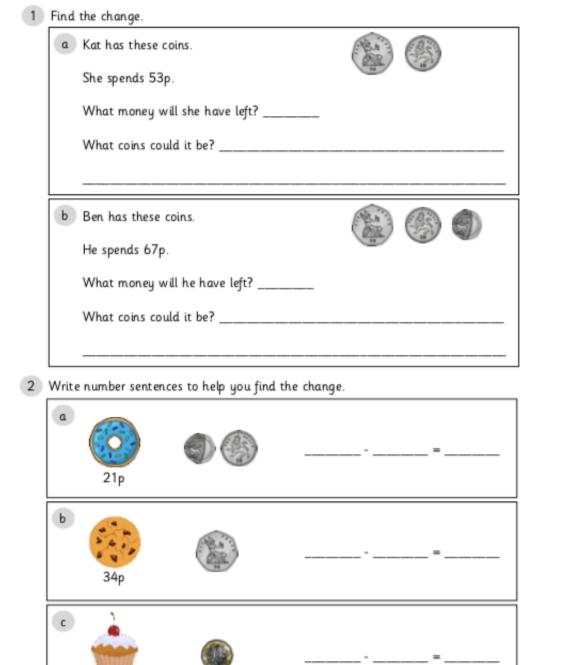


How much were the chips?



On the next few pages, you will find some extra practice sheets. These are optional, which means you don't have to do them. They are just there if you want to use them.





81p

1 Find the change. a Kat spends 36p in the shop. She pays with a 50p coin. How much change will she receive? _____ 36p b Asha spends 75p in the shop. She pays with a £1 coin. How much change will she receive? _____ c Jack spends 25p in the shop. He pays with a 50p coin. He says he received 15p change. Is this true or false? Explain your answer.

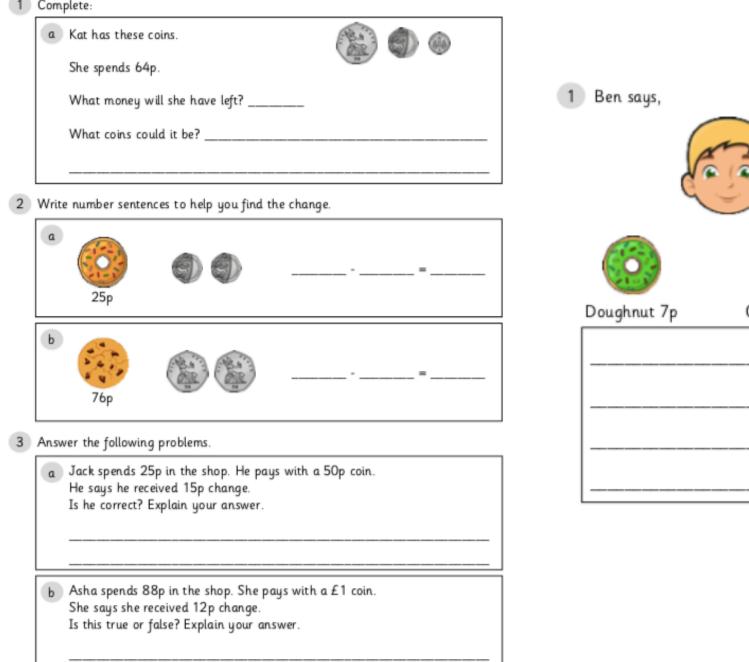




What could Dom have paid with and how much would the item have been?

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Complete:



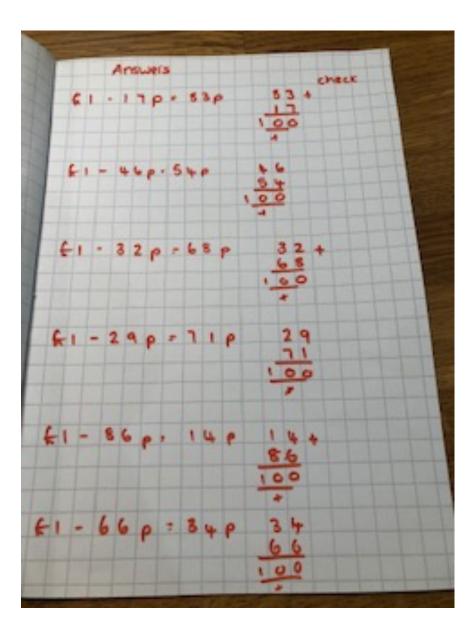
I have 20p. My change is more than 5p but less than 10p. What could I have bought? Chocolate 12p Cupcake 17p Cookie 4p

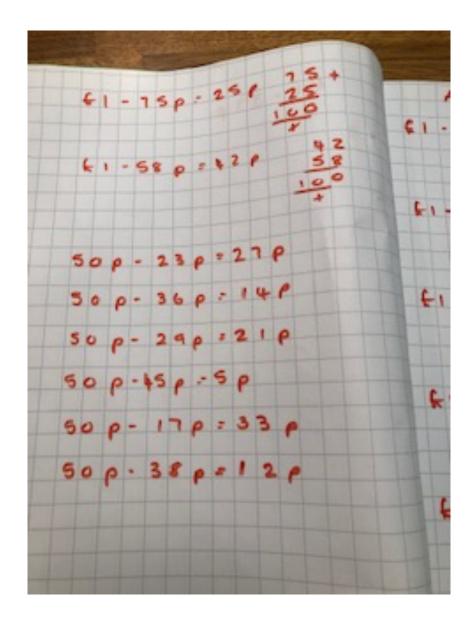


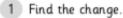


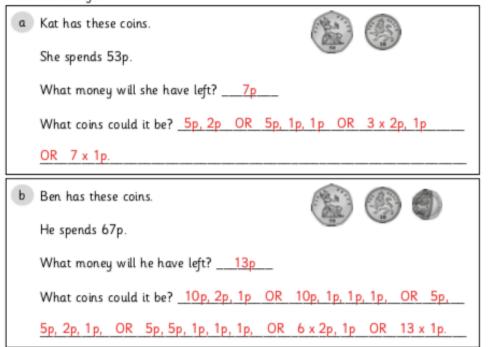
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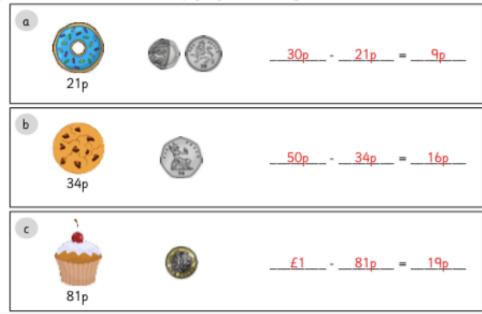








2 Write number sentences to help you find the change.



۵	Kat spends 36p in the shop. She pays with a 50p coin.
	How much change will she receive? <u>14p</u> 36p
b	Asha spends 75p in the shop. She pays with a £1 coin.
	How much change will she receive? <u>25p</u> 75p
c	Jack spends 25p in the shop. He pays with a 50p coin. He says he received 15p change. Is this true or false? Explain your answer.
	False. He would receive 25p change.

2 Dom says,



What could Dom have paid with and how much would the item have been?

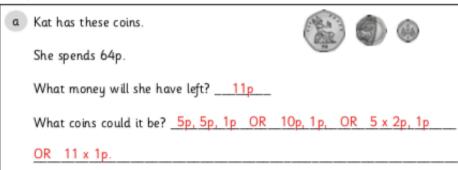
Dom could have paid with a 20p coin. He would have spent 5p.

20p - 5p = 15p OR 5p + 15p = 20p.

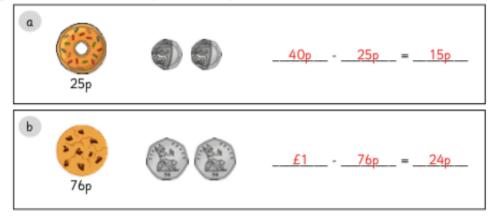
Dom could have paid with a 50p coin. He would have spent 35p.

50p - 15p = 35p OR 15p + 35p = 50p.

1 Complete:



Write the calculation to find the change.



Answer the following problems.

 Jack spends 25p in the shop. He pays with a 50p coin. He says he received 15p change. Is he correct? Explain your answer.

Jack is incorrect. He would receive 25p change.

50p - 25p = 25p OR 25p + 25p = 50p.

b Asha spends 88p in the shop. She pays with a £1 coin. She says she received 12p change. Is this true or false? Explain your answer.

True. She would receive 12p in change.

 $\pounds 1 - 12p = 88p$ OR $88p + 12p = \pounds 1$.

