Year 2 Maths: Two Step Problems

Tuesday 26.01.21

Today we will use our learning to solve 2 step problems.



Fluency

Solve these calculations:

$$38 + 38 =$$
 $54 - 37 =$
 $74 - 28 =$
 $56 - 44 =$

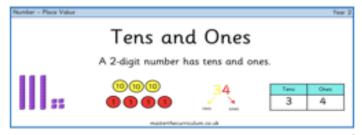


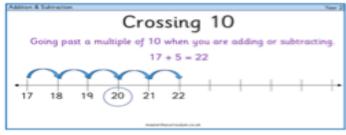
Write number stories for the calculations

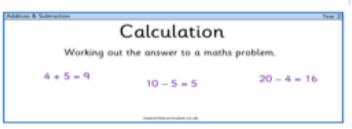
There are 47 tins of cat food in Mrs Riley's cupboard. This week her cats eat 19 tins. How many tins are left?

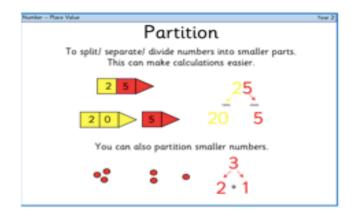


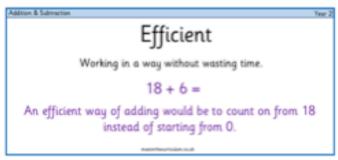
Vocabulary

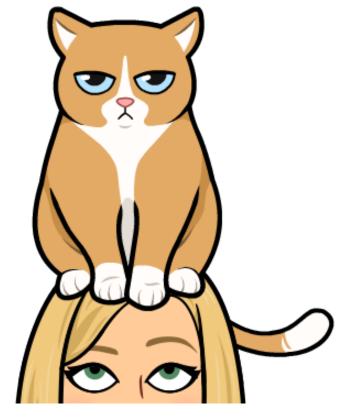












How much will these 2 items cost altogether?





How much will these 2 items cost altogether?

31p 45p 76p

Did you use column method or a number line. Either way is fine.



How much change will I get if I buy the ice cream?



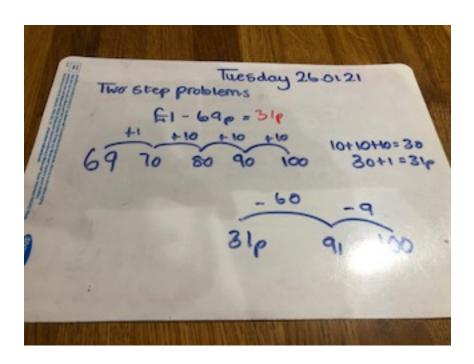
Use your learning from yesterday to help you.





How much change will I get if I buy the ice cream?

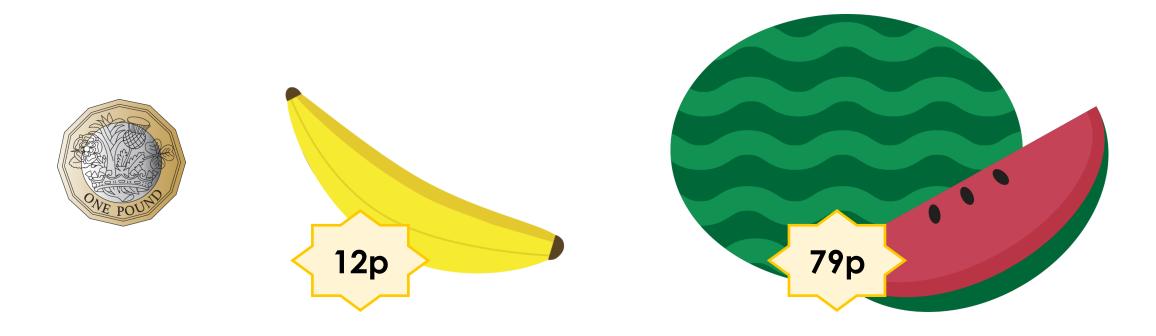




£1 - 69p = 31pDid you count on or count back?

Explore

I want to buy both pieces fruit.



What do I need to do to work out how much change I need?

Explore

Add the costs to find the total.



87	
12	75

$$12 + 75 = 87p$$

100	
87	13

$$100 - 87 = ___p$$

Subtract the total cost to find the change.

It is important to think carefully about what the question tells us.



Mrs Riley had £10.

What does this mean?

She was given £5 more.

£2

She bought a book.

If she buys something does she have more or less?

How much does she have now?

Talk to your grown up about your ideas.

It is important to think carefully about what the question tells us.



Mrs Riley had £10.

More tells me I have to add.

She was given £5 more.

£2

She bought a book.

How much does she have now?

If I buy something, I am using my money so I will have less.
This tells me I need to subtract.

When we understand the language, we can choose the correct calculation.

Mrs Riley had £10.

15	
10	5

$$£10 + £5 =$$

She was given £5 more.



She bought a book

How much does she have now?

15		
2	13	

$$£15 - £2 =$$

When we understand the language, we can choose the correct calculation.



She was given £5 more.



How much does she have now?

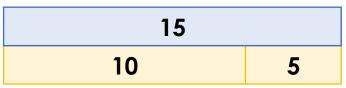


$$£10 + £5 = £15$$

£2

We then subtract the cost of the book from £15

$$£15 - £2 = £13$$



$$£10 + £5 = £15$$

15	
2	13

$$£15 - £2 = £13$$

I buy 2 apples.

How much change will I get?





Talk to your grown up about your ideas.



I buy 2 apples.

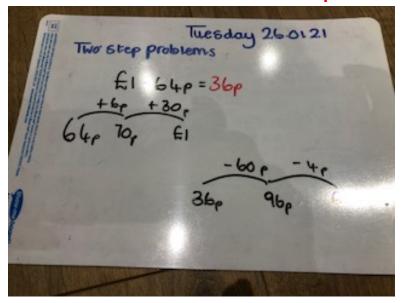
How much change will I get?



1 apple costs 32p + 32p.

2 apples cost 64p.

£1
$$-64p = 36p$$



What is happening in this problem?



Minie has 30p.

Alfie has 20p.

30p ____ 20p = ___

They put their money together to buy a packet of biscuits.

How much money will they have left?

What is happening in this problem?



Minie has 30p.

Alfie has 20p.

They put their money together to buy a packet of biscuits.

How much money will they have left?

We need to find out how much money Minie and Alfie have altogether. We need to add 30p and 20p.

Once we have done that, we can subtract the cost of the biscuits to find the change.

What is happening in this problem?



Minie has 30p.

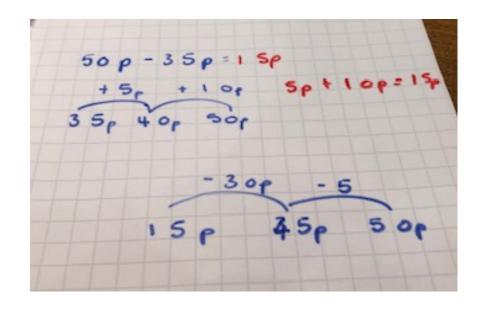
Alfie has 20p.

They put their money together to buy a packet of biscuits.

How much money will they have left?

$$30p + 20p = 50p$$

$$50p - 35p = 15p$$



Independent Task

Work out how much change you will get from £1.

Price List	
Wonka Bar	29p
Everlasting Gobstoppers	37p
Nerd and Dweebs	16p
Wonka's Xploder Bar	35p
Fizzy Pop Tops	23p



Check your final answer using an addition.



You buy:

- 1 Wonka Bar + 1 Fizzy pop Top
- 2 Wonka Bars
- 1 Nerd and Dweebs + 1 Gobstopper
- 1 Xploder Bar + 1 Gobstopper
- 2 Gobstoppers + 1 Fizzy Pop Top
- 2 Nerds and Dweebs + 1 Wonka Bar
- 1 Fizzy Pop Top + 1 Nerds and Dweebs.

If you're finding things tricky, try this...

1 Complete the bar models and write the	calculations.				
a Kat has £3 in her purse. She is given £1 and 50p more. Fill in the bar model and write a calculation to show her total.					
	+ =				
£3 £1 and 50p	Kat has in total.				
Kat then buys a bag of sweets for 20 Fill the bar model and write the calcu	p. lation to show how much she has left.				
£4 and 50p					
20p	Kat has left.				
b Rob has £5 in his wallet. He is given a Fill in the bar model and write a calcu	'				
Fill in the bar model and write a calcu	lation to show his total.				
	+ =				
£5 £3 and 50p	Rob has in total.				
Rob then buys a pen for £1. Fill the bar model and write the calcu	Rob then buys a pen for £1. Fill the bar model and write the calculation to show how much he has left.				
£8 and 50p					
£1	Rob has left.				
Tam has £10 in her money bank. She					
	+=				
£10 £5	Tam has in total.				
Tam then buys a pair of gloves for £3 Fill the bar model and write the calcu).). lation to show how much she has left.				
£15	=				

Tam has

£3

 Solve the following problems. a Ben has these coins. How much does Ben have altogether? b Ben spends 20p. How much does he have left? 2 Solve the following problems. a Che has these coins. How much does Che have altogether? b Che spends £1 and 5p. How much does he have left? 3 The coins below total £1 and 85p. If I spend 55p I would have £1 and 35p left. Is Matt correct? Explain how you know.

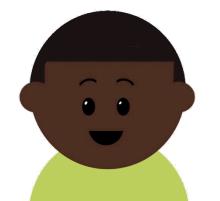
If you want a challenge...

		her money bank. She i nodel and write a calcu		
	£30	£50		in total.
		a handbag for £25. del and write the calcu	lation to show h	ow much she has left.
		£80		=
	£25		Kat has	left.
	+	coins. How much does + + p. How much does he h	.++	
Ca	lculate the toto	ıl cost then how much o	:hange will be re	eceived.
	Jess buys a sk She pays with	irt costing £18 and a ju a £50 note.	imper costing £1	6.
	+	=		
	How much cho	inge will she receive?		

o £1 and 20p	1+1
Sue has four 20p coins.	
Sue is given an extra 20p coin off her Grandma.	
Does Sue have enough to buy the bananas?	1
Explain how you know.	
Jess says,	
I have £1 and 20p. I bought a biscuit for 40p and I would like to be the doughnuts shown below.	buy
90p	
Explain why the shopkeeper will not sell Jess a doughnut.	

Exit task – Dong Nao Jin

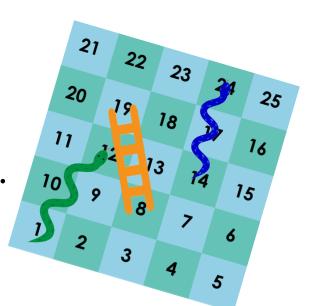
Caleb had £15.



He spent £5 on the game.

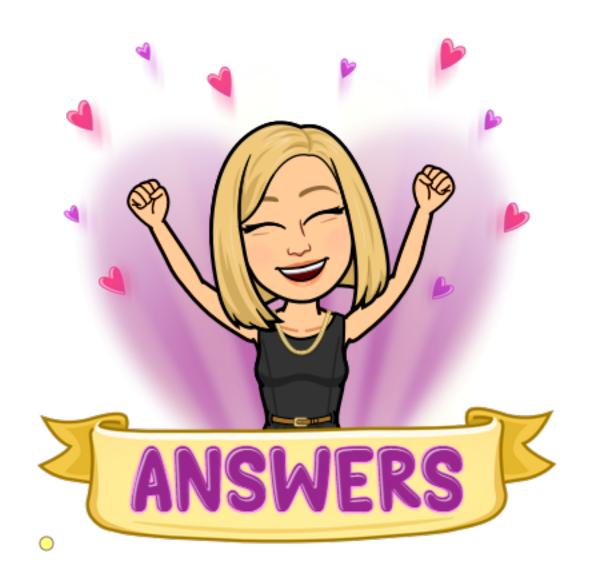
He was given some pocket money.

Now he has £14.



How much pocket money was he given?

Send your answers to me via our class e-mail.



Answers

Solve these calculations:

$$38 + 38 = 76$$
 $54 - 37 = 17$
 $74 - 28 = 46$
 $56 - 44 = 12$

$$47 - 19 = 28$$

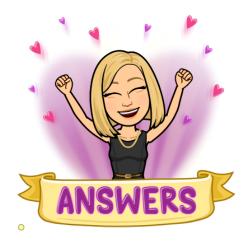
There are 28 tins left.



Independent Task

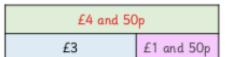
Work out how much change you will get from £1.

You buy:



1 Complete the bar models and write the calculations.

a Kat has £3 in her purse. She is given £1 and 50p more.
Fill in the bar model and write a calculation to show her total.



Kat has <u>£4 and 50p</u> in total.

Kat then buys a bag of sweets for 20p.

Fill the bar model and write the calculation to show how much she has left.

b Rob has £5 in his wallet. He is given £3 and 50p more.
Fill in the bar model and write a calculation to show his total.

Rob has <u>£8 and 50p</u> in total.

Rob then buys a pen for £1.

Fill the bar model and write the calculation to show how much he has left.

£8 and 50p	
£1	£7 and 50p

Rob has <u>£7 and 50p</u> left.

c Tam has £10 in her money bank. She is given £5 more.
Fill in the bar model and write a calculation to show her total.

£15	
£10	£5

Tam has __£15__ in total.

Tam then buys a pair of gloves for £3.

Fill the bar model and write the calculation to show how much she has left.

Tam has <u>£12</u> left.

1 Solve the following problems.









a Ben has these coins. How much does Ben have altogether?

b Ben spends 20p. How much does he have left?

2 Solve the following problems.











a Che has these coins. How much does Che have altogether?

$$£1 + 20p + 10p + 10p + 5p = £1 and 45p$$

b Che spends £1 and 5p. How much does he have left?

3



The coins below total £1 and 85p.

If I spend 55p I would have £1 and 35p left.











No, Matt is not correct.

£1 and
$$85 - 55p = £1$$
 and $30p$.

- Complete the bar models and write the calculations.
 - a Kat has £30 in her money bank. She is given £50 more. Fill in the bar model and write a calculation to show her total

£80		
£30	£50	

$$\underline{£30} + \underline{£50} = \underline{£80}$$

Kat has $\underline{£80}$ in total.

Kat then buys a handbag for £25.

Fill the bar model and write the calculation to show how much she has left.

£80	
£25	£55

Kat has <u>£55</u> left.

Solve the following problems.











a Rob has these coins. How much does Rob have altogether?

$$\underline{£2}$$
 + $\underline{10p}$ + $\underline{2p}$ + $\underline{20p}$ + $\underline{2p}$ + $\underline{£1}$ = $\underline{£3}$ and $\underline{34p}$

b Rob spends 44p. How much does he have left?

- 3 Calculate the total cost then how much change will be received.
- Jess buys a skirt costing £18 and a jumper costing £16. She pays with a £50 note.

$$£18 + £16 = £34$$

How much change will she receive?







Sue has four 20p coins.

Sue is given an extra 20p coin off her Grandma.

Does Sue have enough to buy the bananas?

Explain how you know.

No because she only has £1 in total.

She would need 20p more.

£1 and 20p > £1.

Jess says,



I have £1 and 20p. I bought a biscuit for 40p and I would like to buy the doughnuts shown below.





Explain why the shopkeeper will not sell Jess a doughnut.

£1 and
$$20p - 40p = 80p$$
.

$$90 > 80p$$
.

Jess does not have enough money to buy the doughnut.

