Maths Week 4

Money

Lesson 1 - Finding The Total

In this lesson we are going to recap different coins and then look at adding up different amounts of money, first looking at pence and then moving onto pounds.

https://vimeo.com/425620182

Can you name these coins?

Did you spot any good mistakes?

Sometimes the way coins look changes.
In 2017 the 1 pound coin changed!

Old pound coin

New pound coin

Mr Johnson wants to buy some fruit.

How much will it cost to buy the banana and apple?

How much will it cost to buy the mango and kiwi?

How much will it cost to buy everything?

Mr Johnson has £6. What could he buy?

Mr Johnson goes to the shop and buys a Pepsi and some popcorn.

46p

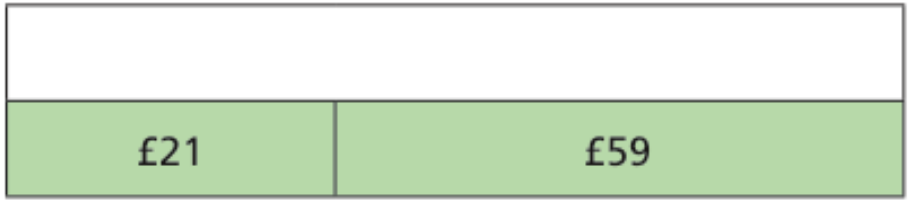
33p

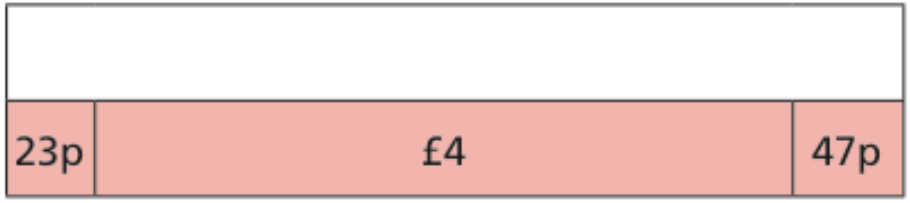
If you've got some coins at home you can use them to help you and if you don't you can use tens and ones to add up.

How much would he pay for them altogether?

Could he pay for these using just 2 coins?

Can you complete these bar models?



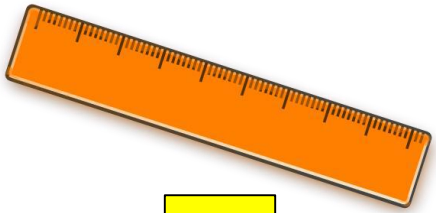


Miss Holmes has some money in her purse.

She finds 33p in her pocket.

How much money does she have altogether?

Mrs Docwra is doing some shopping.



How much would the pencils and computer cost altogether?

How much would the basketball, camera and computer cost altogether?

How much would 2 basketballs and a ruler cost?

Mrs Docwra spends £8 and 57p. What did she buy?

Now you're an expert at adding up money you can try this optional sheet for more practice.

Find the total

1 Annie wants to buy some new toys.

a) How much does it cost to buy the teddy and the yoyo?

b) How much does it cost to buy the toy train and the football?

c) How much does it cost to buy one of everything?

d) Annie has £9

Circle three items she could buy.

Compare answers with a partner.

2 Whitney goes to the cinema and buys these sweets.

How much money does Whitney spend altogether?

3 Complete the statements.

a) £3 + 42p = £ ☐ and ☐ p

b) £7 + ☐ p = £7 and 96p

c) £ ☐ + 3p = £11 and ☐ p

d) £ ☐ and 53p = 50p + 3p + £18

e) £10 + ☐ p + 50p = £10 and 70p

Lesson 2 - Finding the Difference

In this lesson we are going to be finding the difference between different amounts of money. It can be helpful to use money for these problems if you have any change at home. Alternatively, using addition and subtraction methods we have learnt at school can help too.

https://vimeo.com/425620376

To find out how much more money someone has, we can either count on or takeaway.

Jeff has 25p and Fred has 43p. I want to see how much more money Fred has.

I can count on from 25p till I get to 43p, this could be with an empty number line if it helps you.

Or I could do the calculation 43p - 25p, the answer will be how much more Fred has than Jeff.

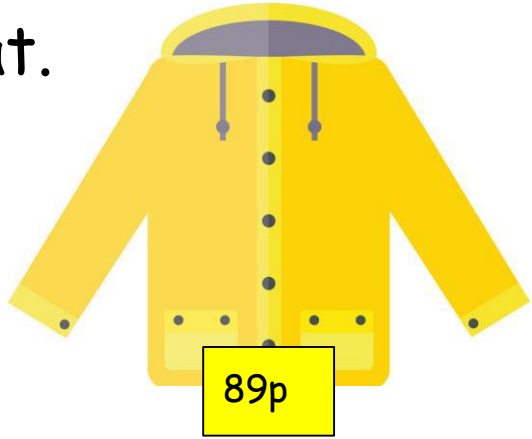
See if you can work out how much more Fred has than Jeff.

Burlington Bear has some money.
How much money does he have?

His friend also has some money.
How much money does his friend have?

Who has more money?
How much more do they have?
How did you work it out?

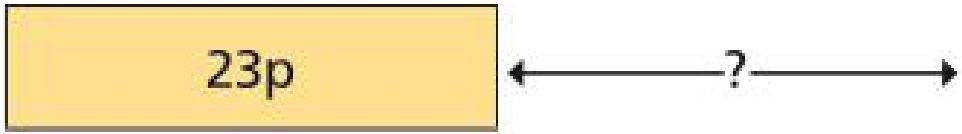
Burlington Bear wants to buy this new coat.
This is the money he has.



How much more money will he need to buy this coat?

Top tip!
You can use any of the addition and subtraction methods we have looked at this year to help you (empty number line, tens and ones, bar model)

Work out the difference between the cost of a bottle of water and a lollipop.



Dora and Mo each have some money.
Who has more?
How much more do they have?

I have one £10 note and five £1 coins.

I have two £5 notes, one £20 and two £2 coins.

Jack has been to the cinema and bowling.

How much more did Jack spend to go to the cinema than to go bowling?

Challenge!

Tom and Whitney each have £5 and 84p.

a) Tom spends some money.

Now he has £5 and 7p.

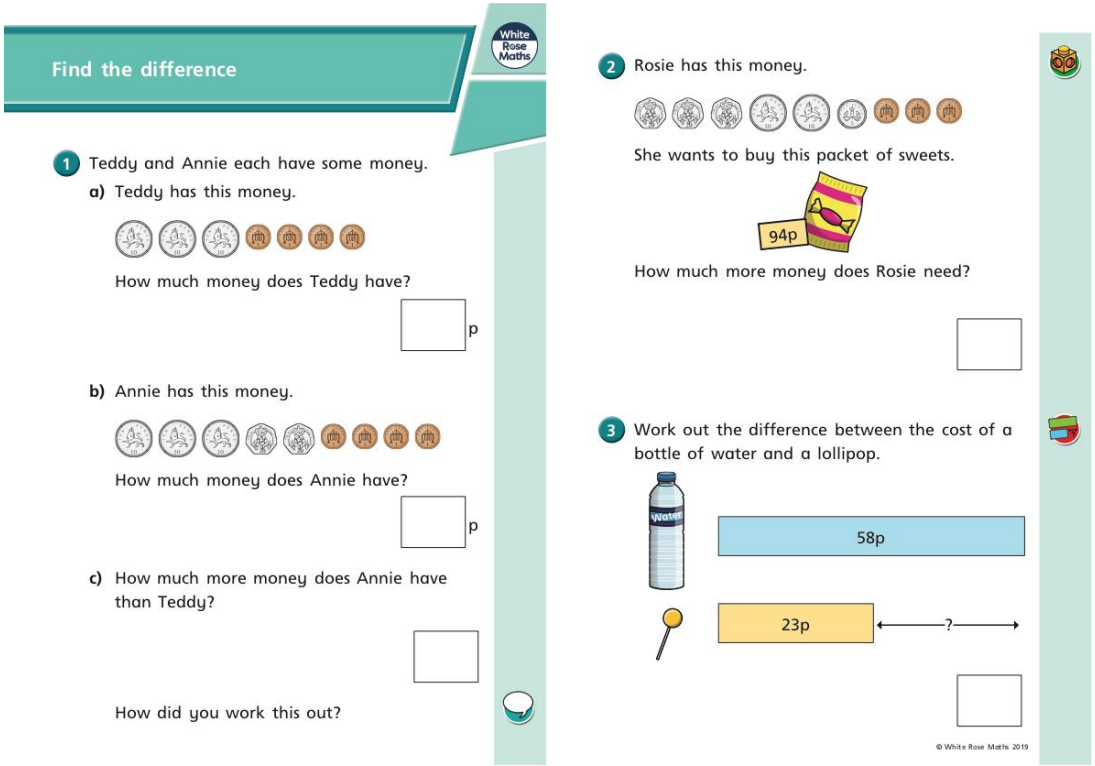
How much did Tom spend?

b) Whitney also spends some money.

Now she has £5 and 23p.

How much more did Tom spend than Whitney?

Now you're an expert at finding the difference you can try this optional sheet for more practice.



Find the difference

1 Teddy and Annie each have some money.

a) Teddy has this money.

How much money does Teddy have?

p

b) Annie has this money.

How much money does Annie have?

p

c) How much more money does Annie have than Teddy?

How did you work this out?

2 Rosie has this money.

She wants to buy this packet of sweets.

94p

How much more money does Rosie need?

3 Work out the difference between the cost of a bottle of water and a lollipop.

Water

58p

23p ?

Lesson 3 - Finding Change

In this lesson we will be finding change. At first this will involve counting up some coins to work out the total before taking the other money away. Children are encouraged to either do this as subtraction, or counting on if they find it easier.

https://vimeo.com/425620627

Starter

34 - 12 =

48 - 24 =

69 - 58 =

53 - 35 =

34 - 18 =

Remember the methods that we have used to solve subtraction problems before:

Empty Number Line

Tens and Ones

Burlington Bear has this money.

He wants to buy this toy.

How much change will he have?

Top tip
Count up the money you have first and then take away the cost of the toy.

Mr Johnson has this money:

He wants to buy this skipping rope.
How much change will he have?

Nijah buys a lollipop for 15p.

She pays with a 50p coin.

How can we work out the change?

Circle the calculation.

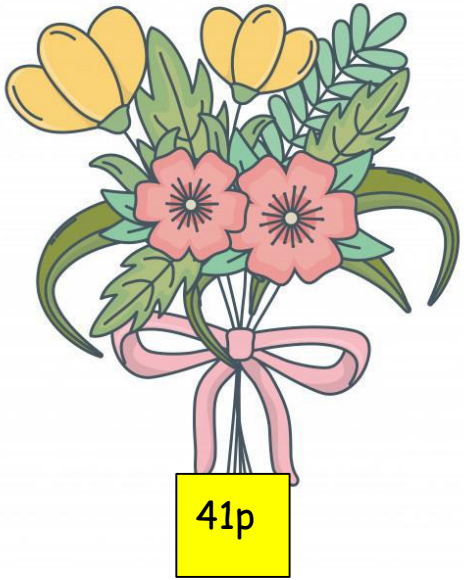
15 – 50 **50 + 15** **15 + 50** **50 – 15**

Mr Williams wants to buy this camera.
He has this money.

How much change will he have?

What coins/notes could his change be made up of?

Ms Ellis wants to buy these flowers.
She pays with £1 and 62p.



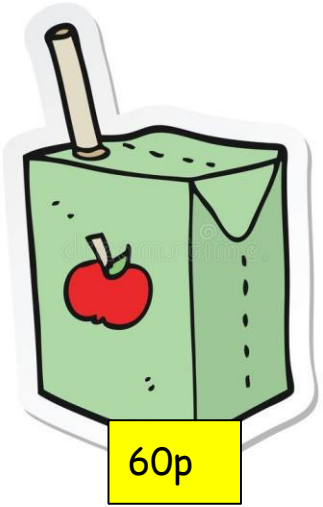
How much change will she get?

What coins might she get in her change?

Burlington Bear has £1

He buys this carton of juice.

How much change does he get?



Burlington Bear changes his mind.
Now he wants this carton of juice.

How much change will he get from his £1?

Can you spot Eva's good mistake?

Challenge!

Rosie and Tom buy some of these items.

a) Rosie has a 50p coin.

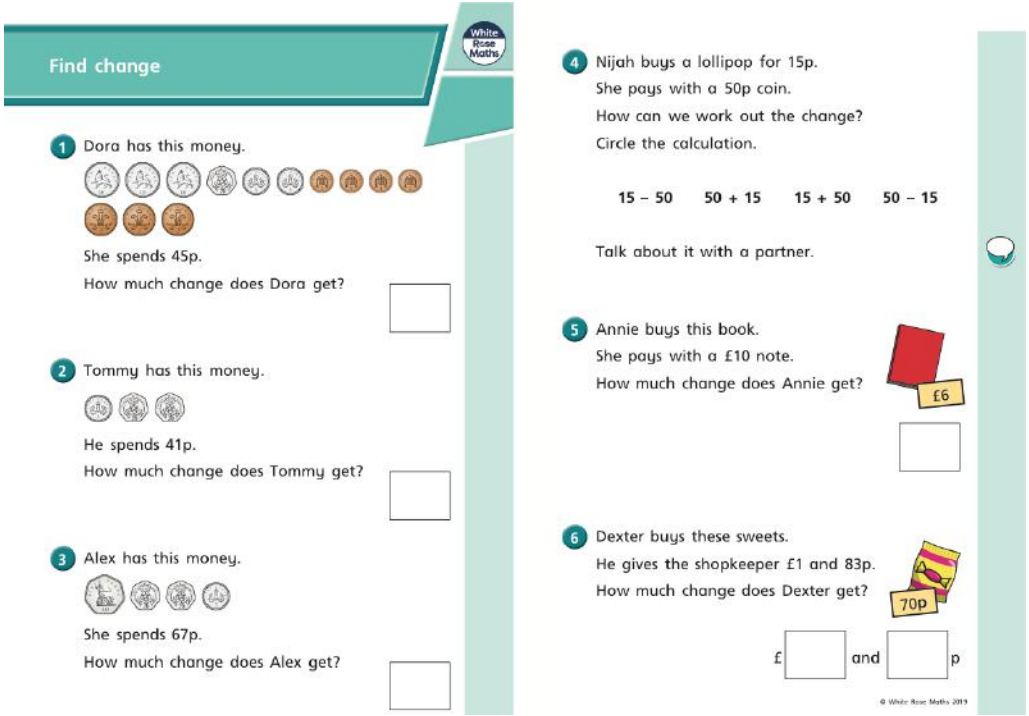
She buys one item.

Rosie's change is all silver coins and one of them is a 20p.

What did Rosie buy? _____

How do you know?

Now you're an expert at finding change you can try this optional sheet for more practice.



Find change

1 Dora has this money.

She spends 45p.

How much change does Dora get?

2 Tommy has this money.

He spends 41p.

How much change does Tommy get?

3 Alex has this money.

She spends 67p.

How much change does Alex get?

4 Nijah buys a lollipop for 15p.
She pays with a 50p coin.
How can we work out the change?
Circle the calculation.

15 – 50 50 + 15 15 + 50 50 – 15

Talk about it with a partner.

5 Annie buys this book.
She pays with a £10 note.
How much change does Annie get?

£6

6 Dexter buys these sweets.
He gives the shopkeeper £1 and 83p.
How much change does Dexter get?

70p

£ and p

Lesson 4 - Two Step Problems

So far this week you have practised finding totals, finding the difference and finding change. We are going to use these skills to help us solve two step problems.

https://vimeo.com/425620791

Let's start by recapping how to find the total.
We can use a bar model to help us.

Mr Johnson is given £7 for his birthday.
Ms Ellis gives him another £5 inside his card.

So we know that £7 is one part. £5 is the other part. So we do £7 + £5 and the whole is £12.
So Mr Johnson has £12 altogether.

7	+	5	=	12

12	
7	5

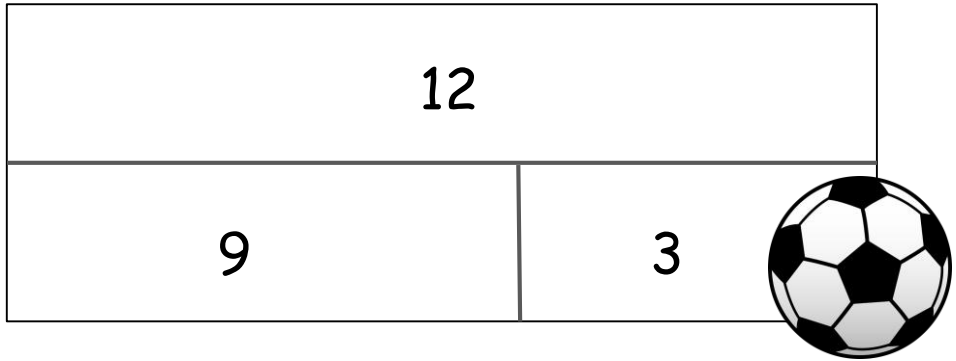
Mr Johnson was so excited to spend his birthday money.

We know that Mr Johnson received £12 altogether. So we can put this total at the top of our bar model.

Mr Johnson decided to buy a new football for £3. So one of the parts is £3.

This time we're going to do 12 minus 3 to find the other part. Mr Johnson has £9 left.

12	-	3	=	9



Your turn!

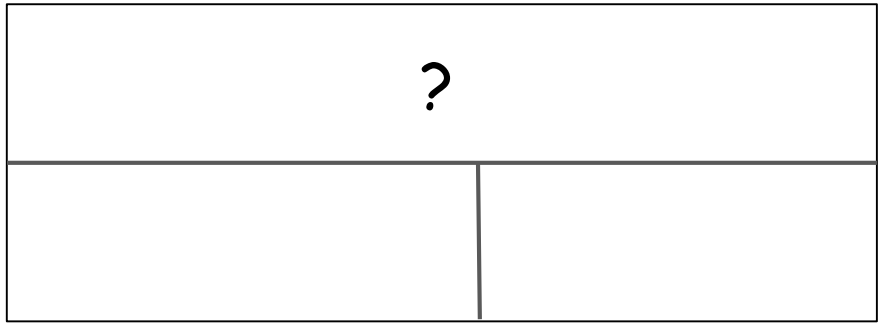
Miss Holmes donated £11 to a charity.

Mrs MacMillan donated another £17 to that charity.

How much money did they donate to that charity?

Complete the bar model and the number sentence.

☐ + ☐ = ☐



You found out that the charity received £28 altogether.

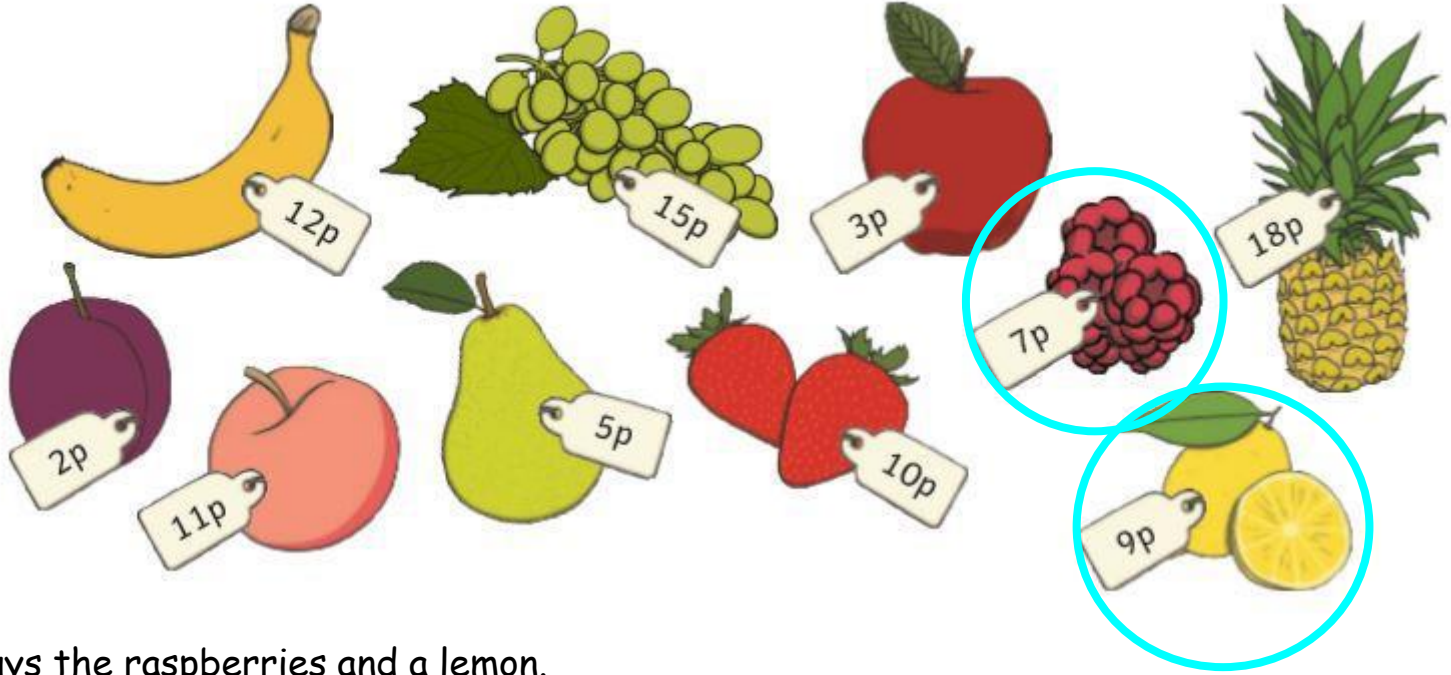
The charity spent £13 on some new children's toys.

How much money did they have left?

Complete the bar model and number sentence.

□ - □ = □

A supermarket sells these fruits:



Lola buys the raspberries and a lemon.

She pays with a 20p coin.

How much change does she get?

Step 1

?	

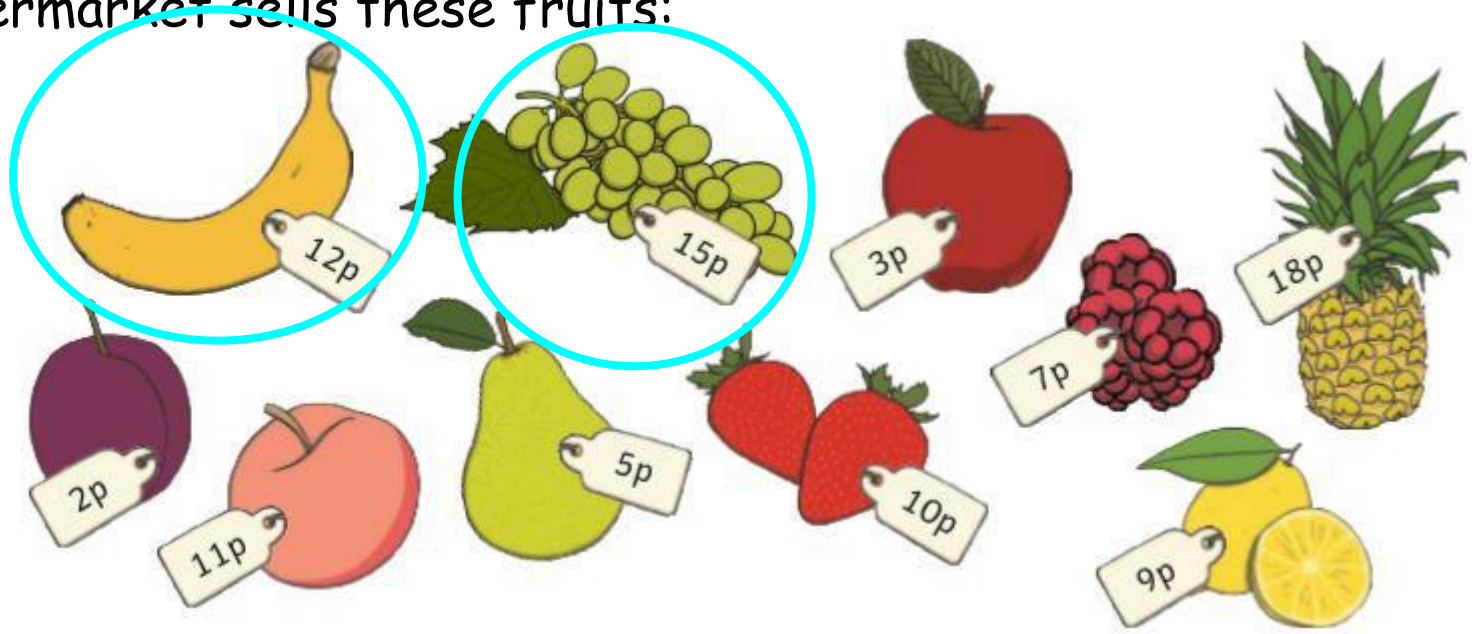
☐ + ☐ = ☐

Step 2

	
	?

☐ - ☐ = ☐

A supermarket sells these fruits:



Oskar buys the banana and the grapes.

He pays with a 50p coin.

How much change does he get?

Step 1

?	

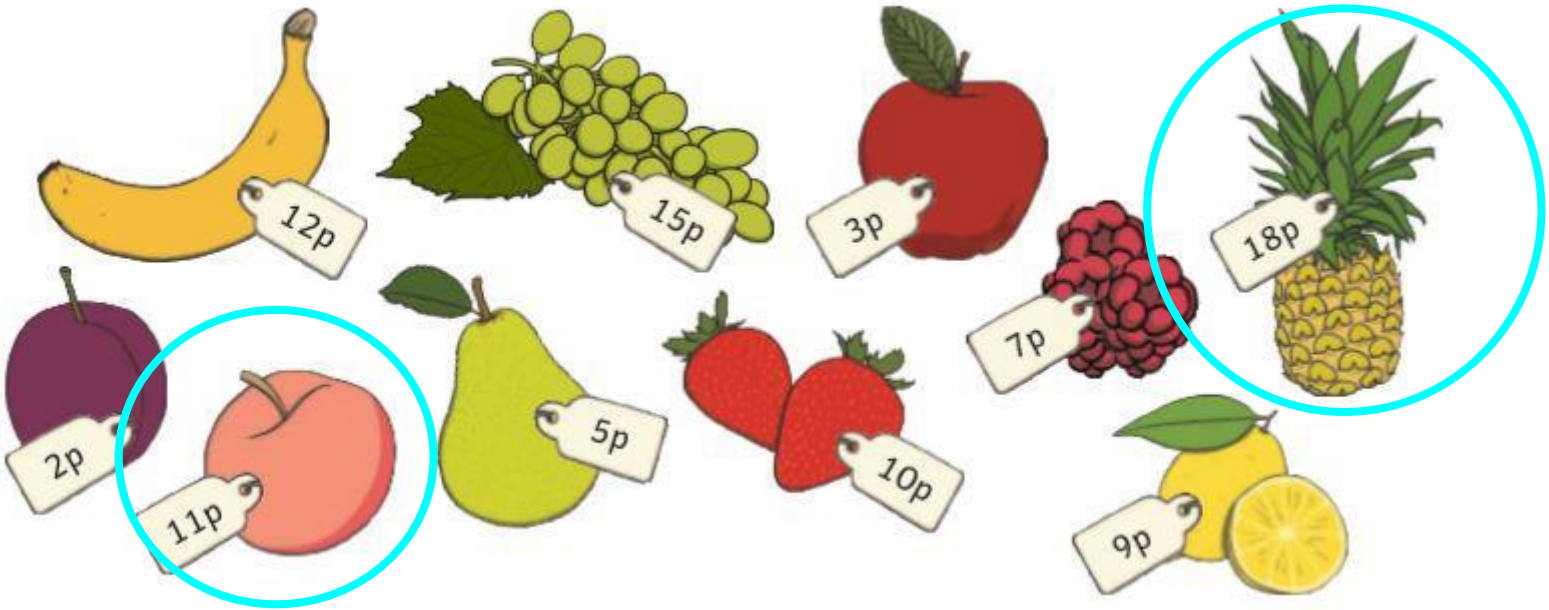
$\square + \square = \square$

Step 2

	
	?

$\square - \square = \square$

A supermarket sells these fruits:



Megan buys the peach and the pineapple.

She pays with a £1 coin.

How much change does she get?

Step 1

?	

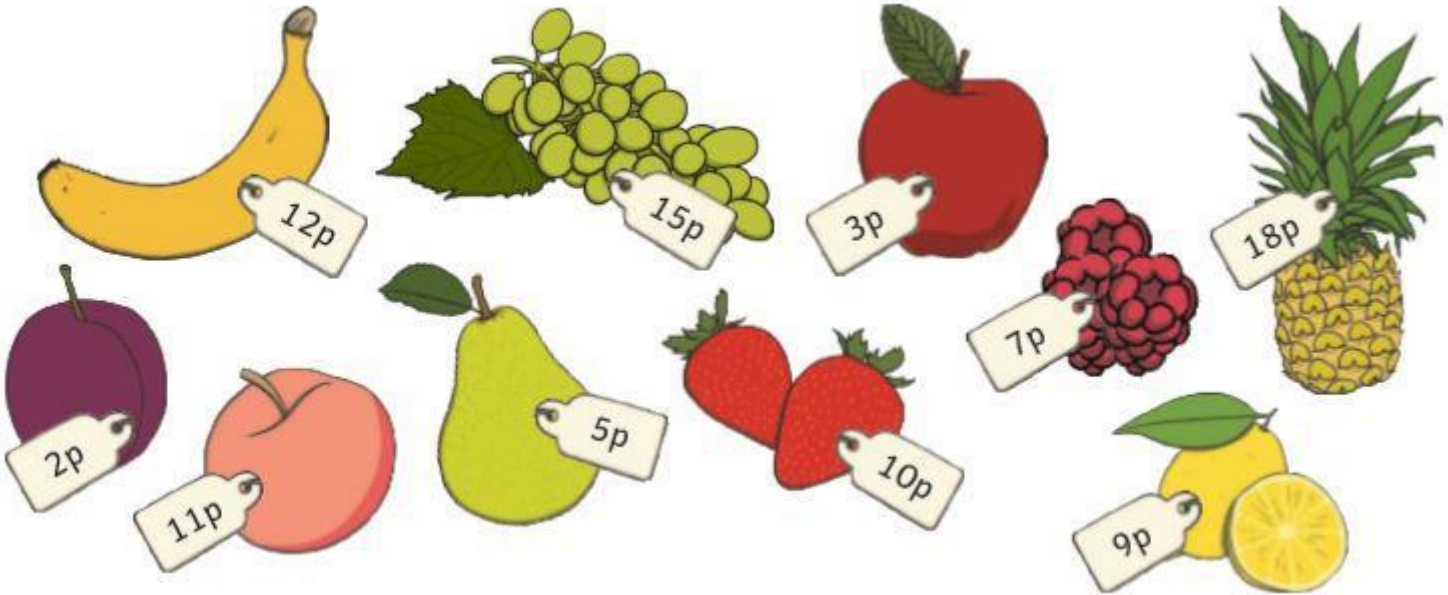
☐ + ☐ = ☐

Step 2

	
	?

☐ - ☐ = ☐

Challenge!



Jeff wants to buy 2 pieces of fruit.

He only has a 10p coin.

What 2 pieces of fruit can be buy? How much change does he get?
Is there more than one answer?

Now you're an expert at two step problems you can try this optional sheet for more practice.

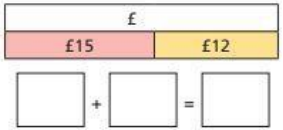
Two-step problems

1 Annie has £15

Her mum gives her another £12

a) How much money does Annie have now?

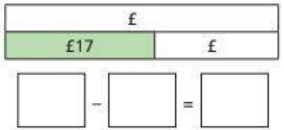
Complete the bar model and the number sentence.



b) Annie buys this teddy.

How much money does she have now?

Complete the bar model and the number sentence.



2 Tommy has 35p in one hand and 27p in the other hand.

a) How much money does Tommy have altogether?

Tommy buys this box of crayons.

b) How much money does he have now?

3 Aisha has a £20 note.

a) Aisha spends £7 on a cinema ticket.

How much change does she get?

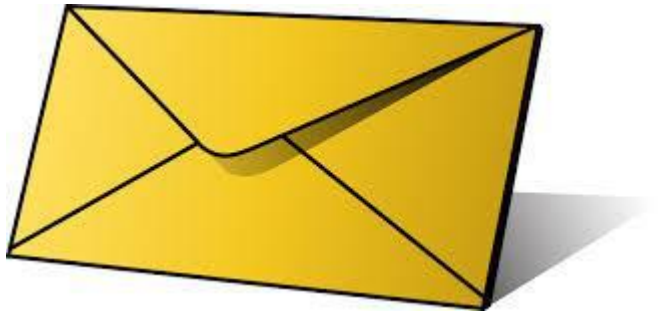
Lesson 5 - Money Problem Solving

In this lesson the children will solve a series of problems based on finding totals of money.

Challenge 1 and challenge 2 are optional.

Please encourage your child to use the try and improve strategy - they have a go and if they get it wrong they make a clever change and have another go.

This is Ben and it is his birthday.
His Grandma has given him a birthday card. In the envelope there are 5 coins.

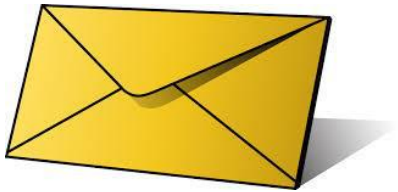


How much money might he have?

Can you think of 4 solutions?

Challenge 1

The 5 coins in the envelope are all silver coins.
Grandma tells Ben there is more than £1 in the envelope.



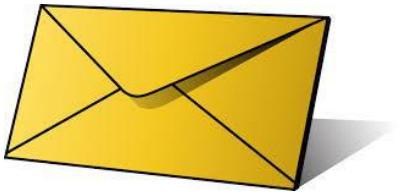
Remember in year 2
we write
£ _____and _____p

How much money could there be in the envelope?

Can you think of a solution?

Challenge 2

There are still 5 coins in the envelope.
Grandma tells Ben the total is £1 and 5 pence.



What coins are in the envelope?

Can you think of a solution?

Here are some internet links that you might enjoy looking at

https://www.bbc.co.uk/bitesize/topics/zp8dmp3/articles/zcrq2p3

https://www.bbc.co.uk/bitesize/topics/zp8dmp3/articles/zcrq2p3

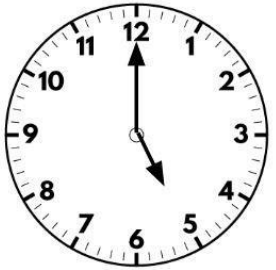
(there are lots of links to other activities/videos on BBC Bitesize)

https://www.topmarks.co.uk/money/toy-shop-money

Mental Maths

Flashback 4

Year 2 | Week 3 | Day 1



1) Complete the sequence.

5, 10, 15, ___ , ___

2) What is 20 ÷ 10?

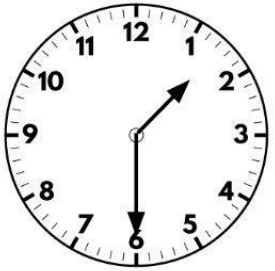
3) Tom has 5 bags of sweets.
There are 2 sweets in each bag.
How many sweets are there altogether?

4) Find the sum of 4, 5 and 6

White Rose Maths

Flashback 4

Year 2 | Week 3 | Day 2



1) How many points do Class 2 have?

Class	Tally	Total points
Class 1	𝍸 𝍸 𝍸	15
Class 2	𝍸 𝍸 𝍸 𝍸 𝍸	

2) Divide 20 by 5

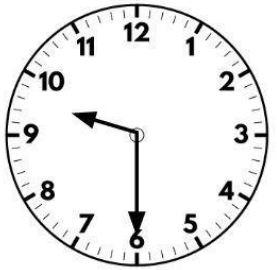
3) Calculate 2×8

4) What is $8 + 8$?

White Rose Maths

Flashback 4

Year 2 | Week 3 | Day 3



1) How many children walk to school?

Travel	Tally	Total children
Walk	𝍸 𝍸 𝍸 ||	
Car	𝍸 𝍸 𝍸 𝍸	20

2) Calculate $8 \div 2$

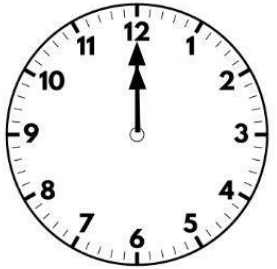
3) What is $5 + 5 + 5$?

4) What is 10 more than 30?

White Rose Maths

Flashback 4

Year 2 | Week 3 | Day 4



1) How many rainy days altogether?

Weather		Total days
Sunny	● ● ● ●	4
Rainy	● ● ●	

Key

● = 1 day

2) Work out 30 ÷ 5

3) How many sides do 10 squares have?

4) What is 30 + 40?

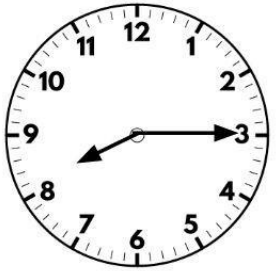
White Rose Maths

Flashback 4

Year 2 | Week 3 | Day 5

1) How many children go to Netball club?

Club	
Netball	●●●●●●
Art	●●●



Key

● = 1 child

2) What is 12 ÷ 2?

3) How much money is there altogether?

4) Is 17 even or odd?

White Rose Maths