

Lesson 1 - Calculating change

Lesson Objective

To be able to subtract pounds and pence with renaming.

In Focus



Emma



£3 and 80p



Ravi



£5 and 30p



Amira

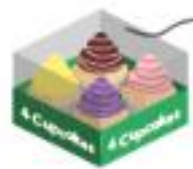


£6 and 20p

How much change does each of them get?

Let's Learn

1 How much change does Emma get?



£3 and 80p

↓ 20p
£4
↓ £6
£10

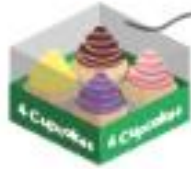
Emma gets £6 and 20p change.

Emma and Ravi pay
with a £10 note
Amira pays with £15

How has Emma worked out the answer?

Let's Learn

1 How much change does Emma get?



£3 and 80p

↓ 20p
£4
↓ £6
£10

- ▶ First, Emma has found out the pence needed to get to the next pound (20p)
- ▶ Then, she finds the difference between the 2 amounts (£4 and £10). Remember, we find the difference by subtracting the smallest number from the bigger number. (The difference is £6)
- ▶ Finally, she adds the pounds and pence together. ($£6 + 20p = £6.20$)

Now use the same method to work out Ravi and Amira's change.

2 How much change does Ravi get?



£5 and 30p

↓ 70p
£6
↓ £4
£10

Ravi gets £4 and 70p change.

Did you get the answer right?

First, Ravi has found out the pence needed to get to the next pound (70p)

Then, he finds the difference between the 2 amounts (£6 and £10). Remember, we find the difference by subtracting the smallest number from the bigger number. (The difference is £4)

Finally, he adds the pounds and pence together. ($£4 + 70p = £4.70$)

3 How much change does Amira get?

Method 1

£6 and 20p
↓ 80p
£7
↓ £8
£15

Method 2

£15
£8 ~~£7~~ subtract £6 and 20p
£8 and 80p



Amira gets £8 and 80p change.

► You could also use column subtraction to work the answer out.

1 5 . 0 0
 6 . 2 0

Remember, put the top number on your fingers. Can you take away the bottom number? If not, you need to **rename**.

If you prefer to use Method 1, then that is fine! It's all about finding the method that works for **you**.

Use either Method 1 or 2 to help you to calculate the change

Guided Practice

Calculate the change.

(a)



(b)



(c)

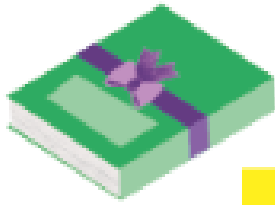


Lesson 2 - Word problems

Lesson Objective

To be able to solve word problems involving addition and subtraction of money.

In Focus



The price of a book is reduced.
How much cheaper is the sale price?



- Could you use a bar model to help you to understand the problem? Remember, the whole will be the total price. The part will be the sale price and the leftover part will be the difference between them.



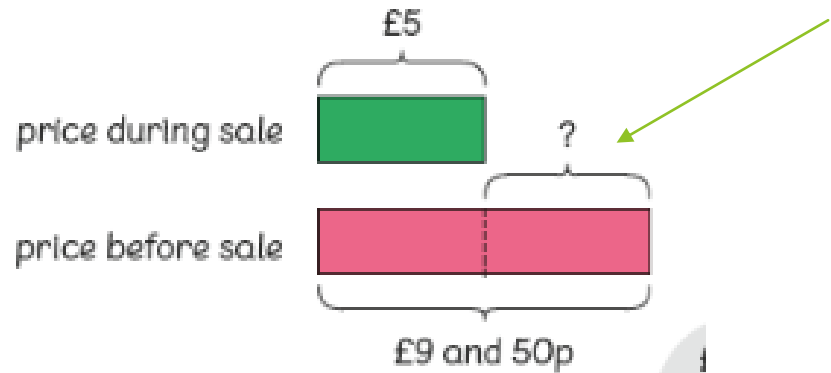
If you have the whole spare.. You need to add the parts together to find the answer
If a part is spare.. You need to subtract the remaining part from the whole to find the answer.
Think back to our family of equations work.

A book is reduced to £5.

Its price before the sale was £9 and 50p.

How much cheaper is the book in the sale?

£4.50



$$£9 \text{ and } 50\text{p} - £5 = £4 \text{ and } 50\text{p}$$

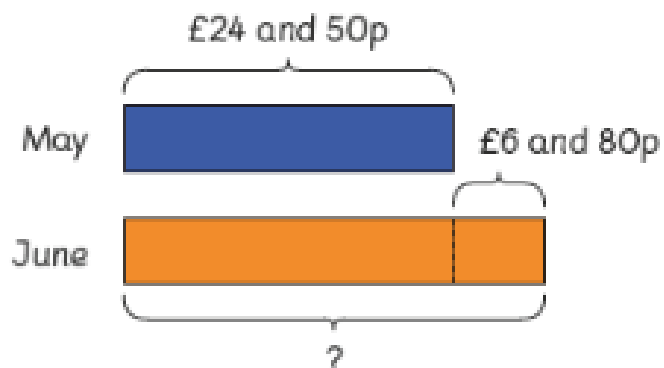
The book is £4 and 50p cheaper in the sale.

- ▶ We need to subtract one of the parts from the whole to find out the remaining part.
- ▶ $£9.50 - £5 = £4.50$

Ruby saved £24 and 50p in May.

She saved £6 and 80p more in June than she did in May.

How much money did she save in June?



► This time, we know the value of both of the parts. To find the whole we need to add both of the parts together.

► First, add the pounds (£) $£24 + £6 = £30$

► Then, add the pence (p) 80p

50p

£1 . 30p

1

£ 30 . 0 0

£ 1 . 3 0

£ 31 . 3 0

Finally, we need to add the pounds and pence together

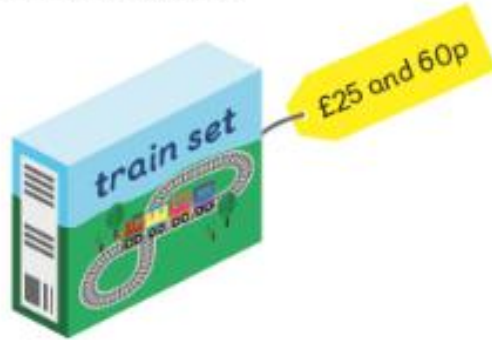
Activity time!

- ▶ Write a list of things you would need if you were going to have a class party
 - ▶ Find out the price of these items online and write the price down
 - ▶ Choose 3 items to add together.
-
- ▶ What is the most expensive combination?
 - ▶ What is the cheapest combination?

Guided Practice

Solve.

- 1 Sam wants to buy a train set which costs £25 and 60p. He needs to save £6 and 80p more than he has now. How much does he have now?



Fill out the bar model.
Do you need to add or
subtract to find the
answer?

Amount he has saved

Amount he has left to save



Total price of the train set

2

A box of chocolates costs £12 and 80p.

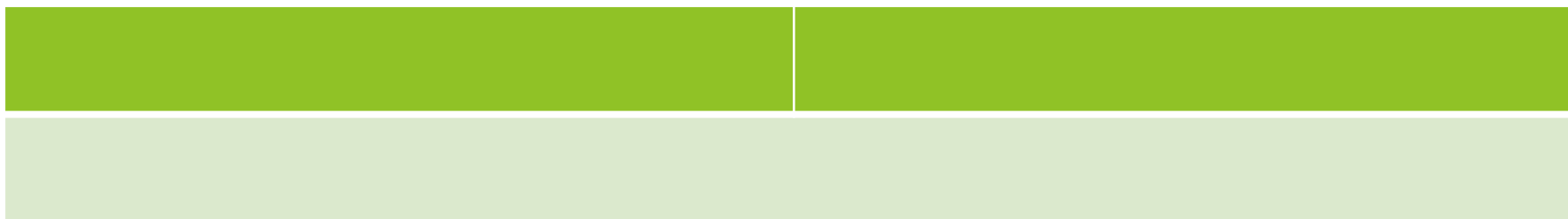
A box of crackers is £4 and 20p cheaper than the box of chocolates.

- (a) How much does the box of crackers cost?
- (b) What is the total cost of the box of chocolates and the box of crackers?



Price of the crackers

The difference between the crackers and chocolates



Price of the box of chocolates

Lesson 3 – Word problems

Lesson Objective

To be able to solve multi-step word problems involving addition and subtraction of money.

In Focus

Elliott bought both shirts
with a fifty-pound note.
How much change did he get?



- ▶ Remember, Elliott has bought 2 t-shirts.
- ▶ How could you work this out if we need to calculate the change?
- ▶ Is there more than 1 way?

Let's Learn

- 1 Add £20 and 50p and £27 and 90p.



First, we need to add the cost of the 2 t-shirts together

First, add the pounds (£) $£20 + £27 =$

Then, add the pence (p) $50p + 90p =$

Finally, add both the amounts together.

Let's Learn

- 1 Add £20 and 50p and £27 and 90p.



First, we need to add the cost of the 2 t-shirts together

First, add the pounds (£) $£20 + £27 = £47$

Then, add the pence (p) $50p + 90p = £1.40p$

Finally, add both the amounts together $£48.40p$

Now, we need to subtract this amount from £50.

We could use column subtraction

$$\begin{array}{r} £ 50.00 \\ - £ 48.40 \\ \hline \end{array}$$

OR.. We could find out how many pence until the next pound

40p 50p 60p 70p 80p 90p £1

And then we can count on in £ until we get to £50

Subtract £48 and 40p from £50.

$$£50 - £48 \text{ and } 40\text{p} = £1 \text{ and } 60\text{p}$$

Elliott got £1 and 60p change.

2

Lulu bought a box of chocolates for £4 and 5p and a box of cookies for £5 and 30p. She had £15 left.

- (a) How much did she spend altogether?
(b) How much did she have to begin with?



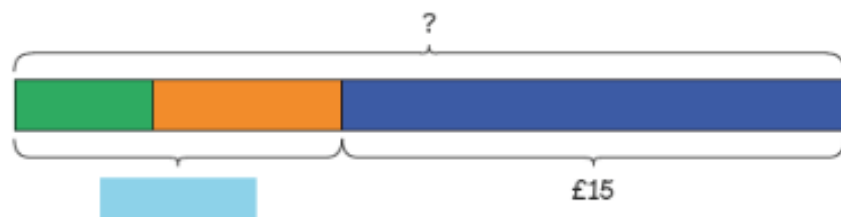
- (a) £4 and 5p £5 and 30p



$$\text{£4 and 5p} + \text{£5 and 30p} = \boxed{}$$

She spent altogether.

- (b)

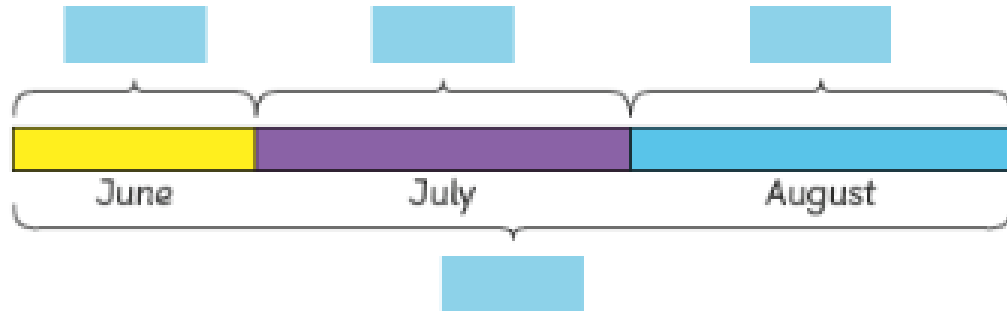


$$\text{£15} + \boxed{} = \boxed{}$$

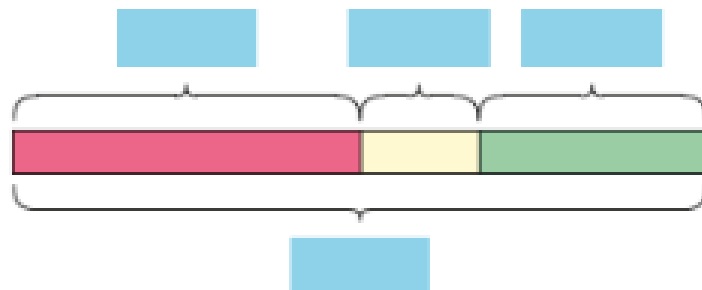
She had to begin with.

Guided Practice

- 1 Hannah saved a total of £75 in June, July and August.
She saved £18 and 25p in June and £28 and 65p in August.
How much did she save in July?



- 2 Sam bought a pair of shoes and a shirt.
The pair of shoes cost £46 and 90p and the shirt cost £15 and 60p.
After buying the items, he had £29 and 70p left.
How much did he have to begin with?



We have now finished all of our Money topic (hooray!)

We would now like you to complete the Review to see how much you have remembered. You can find it at the bottom of the Money Worksheet document. If you can't do a question, don't worry about it and move on. Just do what you can.

If you want to challenge yourself, you can complete the Money Challenge worksheet on the school website.