MONEY – DAY 4

L.O: I am able to use the four operations to solve money word problems

Success Criteria

✓ I can use pictorial representations, like number lines and bar models, and mental strategies to use the four operations to solve money word problems.

✓ I can explain my reasoning when using the four operations to solve money word problems.

Starter

Solve the word problems below.

Ruth has been saving money.
She saved £9 last week and has saved another £3 this week.
How much has she saved in total?

Jamal left the house with £19.
He spent £7 on lunch.
How much money does he have left after buying lunch?

What's the same? What's different?
Explain your answer.

Answer...

Solve the word problems below.

Ruth has been saving money.
She saved £9 last week and has saved another £3 this week.
How much has she saved in total?

Jamal left the house with £19.
He spent £7 on lunch.
How much money does he have left after buying lunch?

What's the same? What's different?
Explain your answer.

The results to both calculations is £12. However, Ruth's calculation is addition
(£9 + £3 = £12), whereas Jamal's is a subtraction calculation (£19 - £7 = £12).

Use the bar model provided to solve the word problem below.

Ruth buys a pizza for £11 and spends £3 on an orange juice.

How much does she spend in total?

Answer...

Ruth buys a pizza for £11 and spends £3 on an orange juice.

How much does she spend in total?

£14	
£11	£3

Use the bar model provided to solve the word problem below.

Jamal buys a burger for £9 and spends £6 on a milkshake.

How much does he spend in total?

Answer...

Jamal buys a burger for £9 and spends £6 on a milkshake.
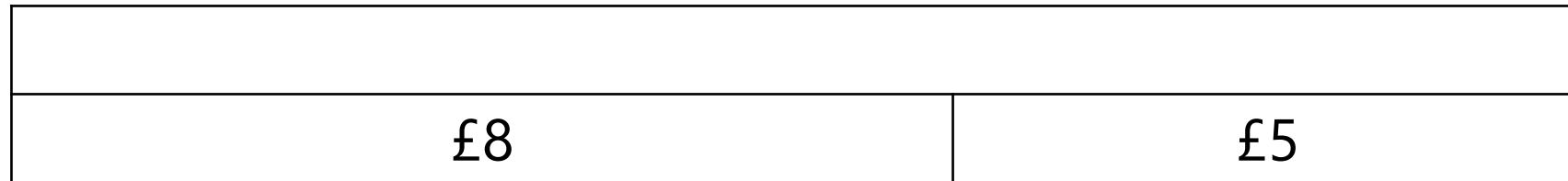
How much does he spend in total?

£15	
£9	£6

Use the bar model provided to solve the word problem below.

Yasmin buys a sandwich for £8 and spends £5 on a bowl of soup.

How much does she spend in total?

£8	£5

Answer...

Yasmin buys a sandwich for £8 and spends £5 on a bowl of soup.

How much does she spend in total?

£13	
£8	£5

Use the bar model provided to solve the word problem below.

Jamal has £15. He spends £4 on a ticket to watch a movie.

How much money does he have left?

Answer…

Jamal has £15. He spends £4 on a ticket to watch a movie. How much money does he have left?

£15	
£11	£4

Use the bar model provided to solve the word problem below.

Yasmin has £14. She spends £11 on a new pair of sandals.

How much money does she have left?

Answer...

Yasmin has £14. She spends £11 on a new pair of sandals.

How much money does she have left?

£14	
£3	£11

Use the bar model provided to solve the word problem below.

Chen has £17. He spends £9 on a board game.

How much money does he have left?

Answer...

Chen has £17. He spends £9 on a board game.

How much money does he have left?

£17	
£8	£9

Use the bar model provided to solve the word problem below.

James buys five tickets for a football game for £10 each.

How much does he spend in total?

Answer...

James buys five tickets for a football game for £10 each.

How much does he spend in total?

£50				
£10	£10	£10	£10	£10

Use the bar model provided to solve the word problem below.

Ruth sells three cakes for £11 each.

How much money does she make in sales in total?

Answer…

Ruth sells three cakes for £11 each.

How much money does she make in sales in total?

£33		
£11	£11	£11

Use the bar model provided to solve the word problem below.

Ahmed shares £44 equally between himself and his three brothers.

How much money do each of the boys get to keep?

Answer...

Ahmed shares £44 equally between himself and his three brothers.

How much money do each of the boys get to keep?

£44			
£11	**£11**	**£11**	**£11**

Use the bar model provided to solve the word problem below.

Eve shares £36 equally between herself and her two sisters.

How much money do each of the girls get to keep?

Answer...

Eve shares £36 equally between herself and her two sisters.

How much money do each of the girls get to keep?

£36		
£12	**£12**	**£12**

Activity

Ruth says, "To calculate £14.70 and £43.50, I start by adding the pound amounts together, making a sub-total of £57. I then add together the pence amount together, making a sub-total of £1.20. I then add the two sub-totals together to make the total amount, which is £58.20."

Use Ruth's strategy to solve:

a) £23.90 + £21.20 =

b) £36.40 + £22.90 =

c) £35.85 + £42.90 =

Answer...

Ruth says, "To calculate £14.70 and £43.50, I start by adding the pound amounts together, making a sub-total of £57. I then add together the pence amount together, making a sub-total of £1.20. I then add the two sub-totals together to make the total amount, which is £58.20."

Use Ruth's strategy to solve:

a) £23.90 + £21.20 = **£45.10**

b) £36.40 + £22.90 = **£59.30**

c) £35.85 + £42.90 = **£78.75**

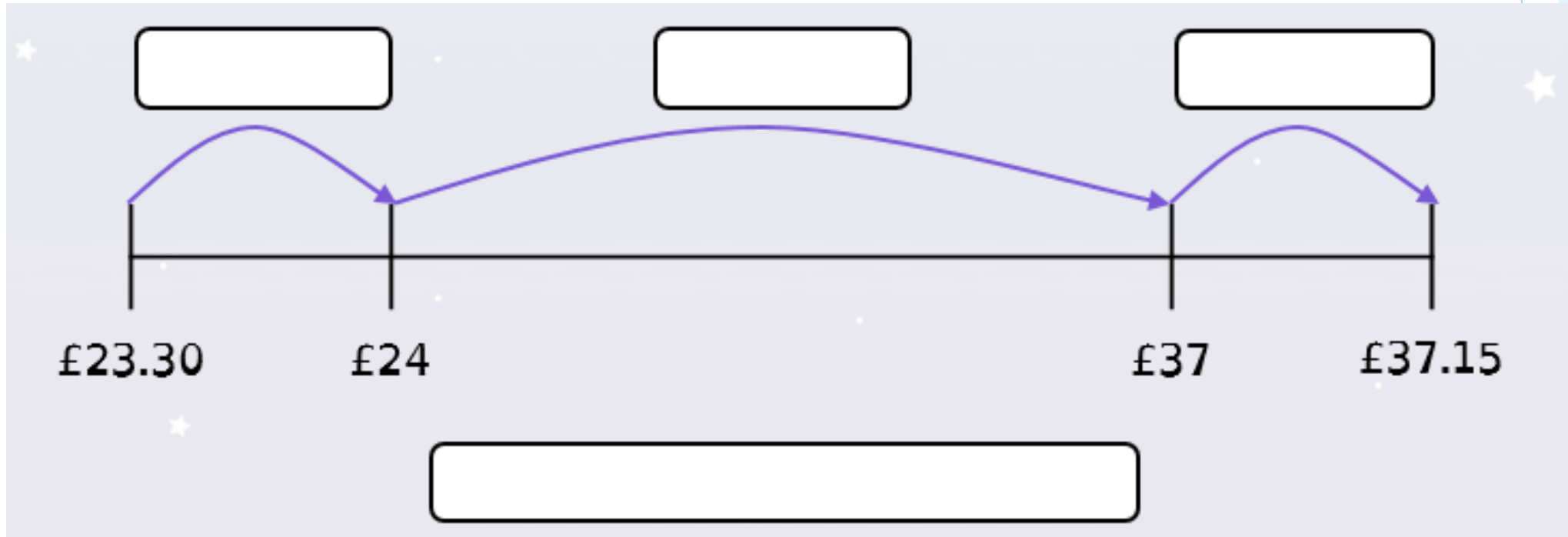# Use a number line to help you find the difference between £24.50 and £35.30.

£24.50   £25   £35   £35.30
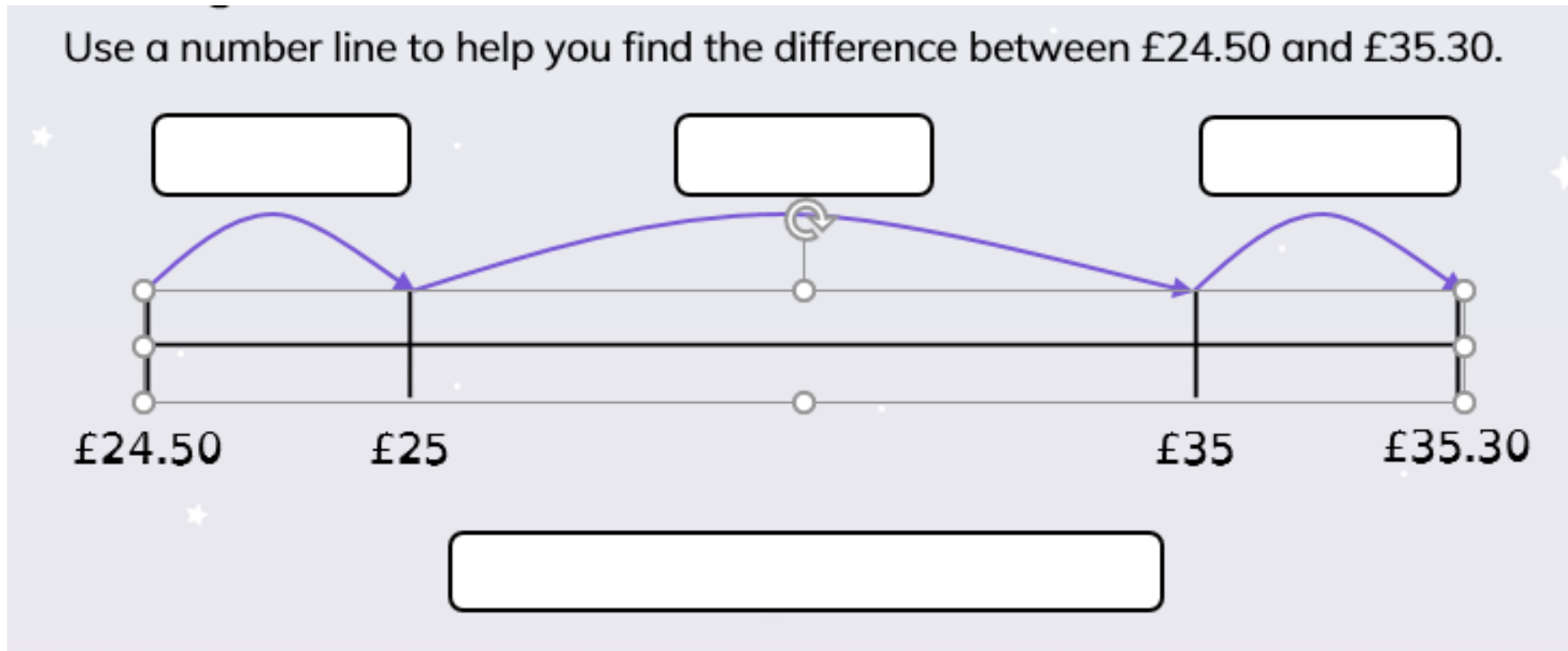
Answer...

Use a number line to help you find the difference between £24.50 and £35.30.
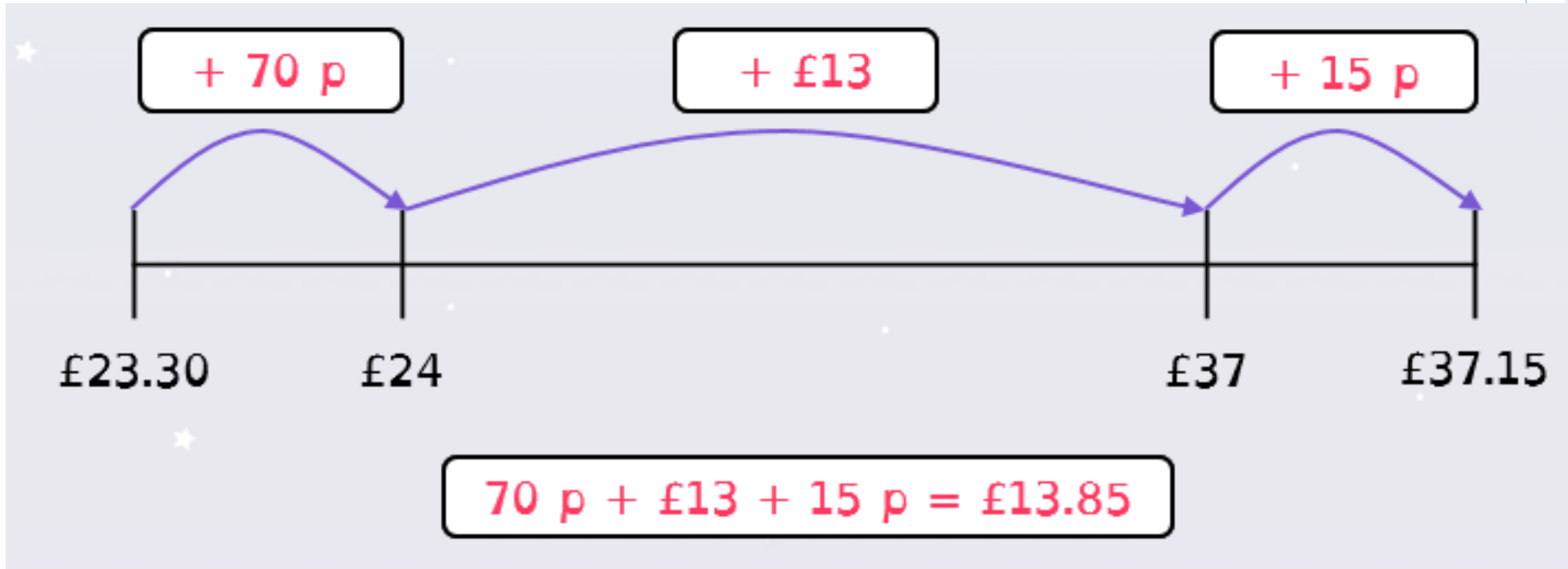

+ 50 p   + £10   + 30 p

£24.50   £25   £35   £35.30
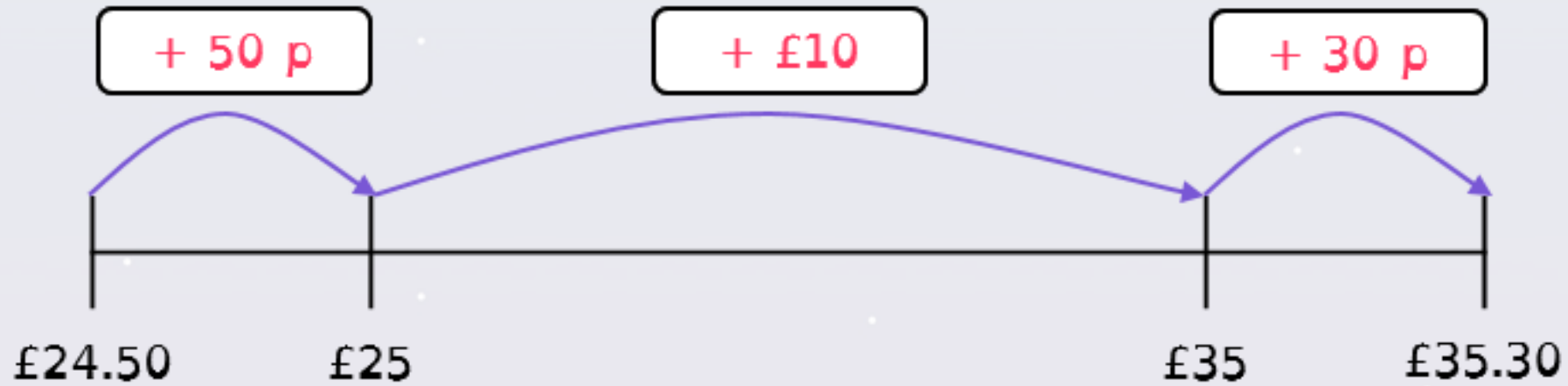
50 p + £10 + 30 p = £10.80

Use a number line to help you find the difference between £23.30 and £37.15.

Answer...

Activity

A sporting goods website sells the following items:

Jamal buys a basketball net, some shoes and a basketball jersey.

He pays with a £50 note.

How much change does he get back? Explain your answer.

Answer…

A sporting goods website sells the following items:

Jamal buys a basketball net, some shoes and a basketball jersey.

He pays with a £50 note.

How much change does he get back? Explain your answer.

He spends £24.99 + £9.20 + £4.50 = £38.69.
So, he gets £50 - £38.69 = **£11.31** back in change.

Activity

A sporting goods website sells the following items:

Ruth buys four basketball nets and uses a £5 off voucher.

How much money does she need to spend to pay the rest of the balance?

Explain your answer.

Answer...

A sporting goods website sells the following items:

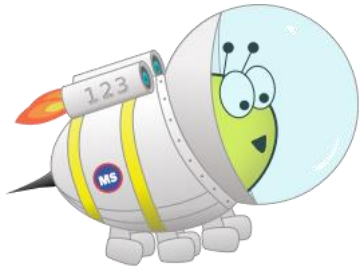Ruth buys four basketball nets and uses a £5 off voucher.

How much money does she need to spend to pay the rest of the balance?

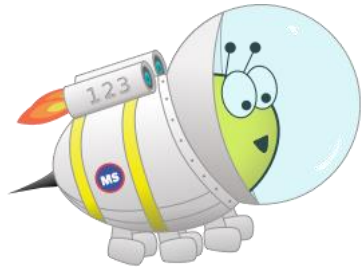4 × £6.40 = £25.60

£25.60 - £5 = **£20.60**

Evaluation

To find the difference between the price of a small pot of honey, £4.89 and a large pot of honey, £11.35, I add them together.

Do you agree?
Explain your answer.

Answer…

To find the difference between the price of a small pot of honey, £4.89 and a large pot of honey, £11.35, I add them together.

Do you agree?
Explain your answer.

No, I do not agree.
Astrobee will find out the combined price of a small pot and a large pot of honey. Astrobee needs to subtract or find the difference (£6.46).