# Measurement

# Money

Master The Curriculum

3

Fluency & Reasoning Teaching Slides

# Pounds & Pence

3

Fluency & Reasoning Teaching Slides

# Activity 1 Pounds & Pence

## Match the amounts that are equal.







| | | | |
|---|---|---|---|
| Fifty pence | Fifteen pence | Fifty pounds | Fifteen pounds |

# Activity 1 Pounds & Pence

## Match the amounts that are equal.







Fifty pounds

Fifteen pounds

Fifteen pence

Fifty pence

# Activity 2 Pounds & Pence

## Match the amounts that are equal.





| | | | |
|---|---|---|---|
| Fourteen pounds | Fourteen pence | Forty pence | Forty pounds |

# Activity 2 Pounds & Pence

## Match the amounts that are equal.





Forty pounds

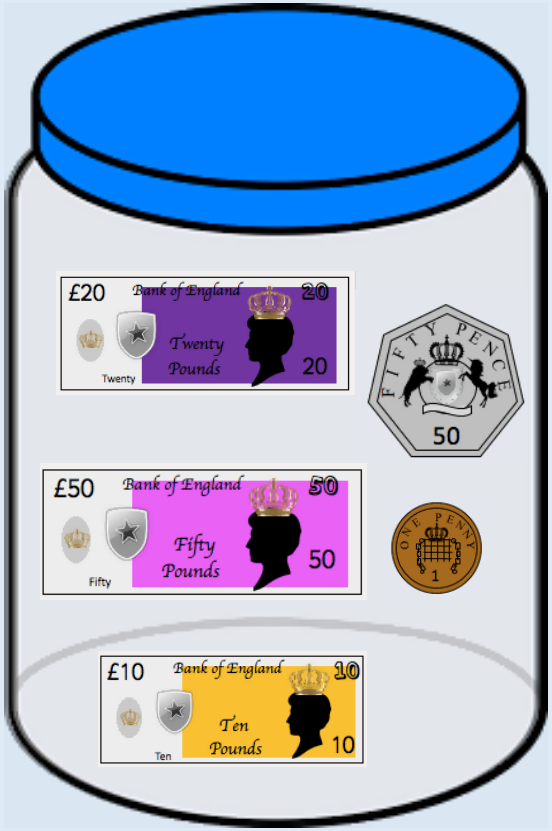
Fourteen pounds

Fourteen pence

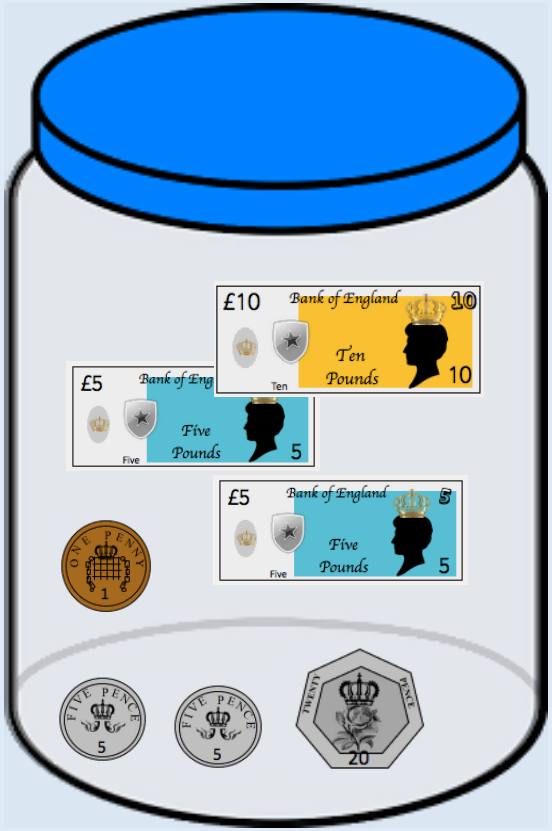
Forty pence

# Activity 3 Pounds & Pence

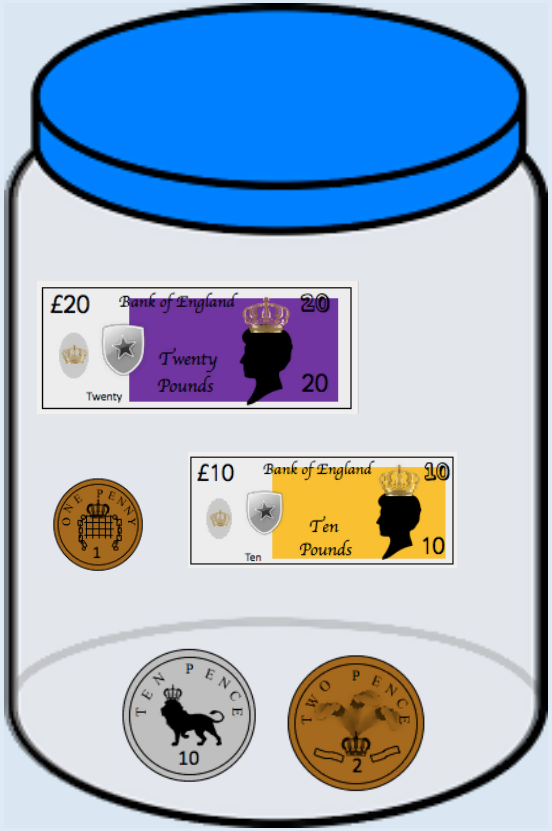
## How much money is in each jar?




£_____ and _____p



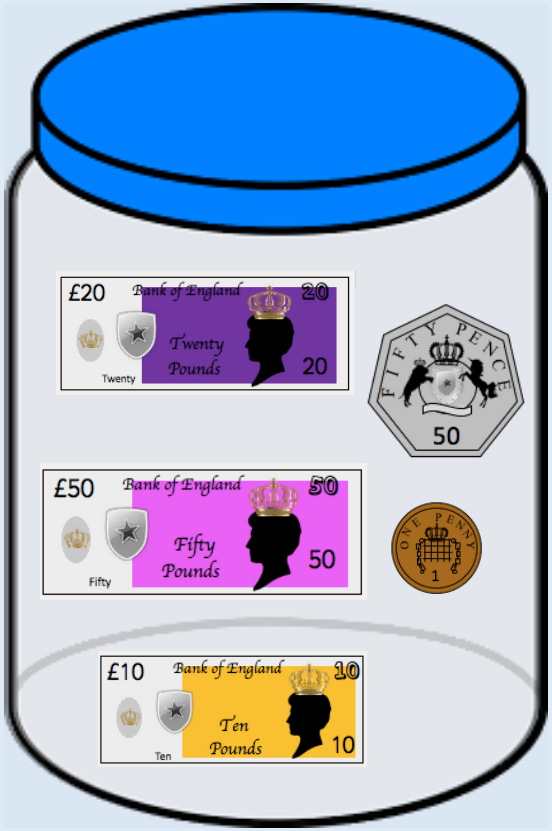

£_____ and _____p



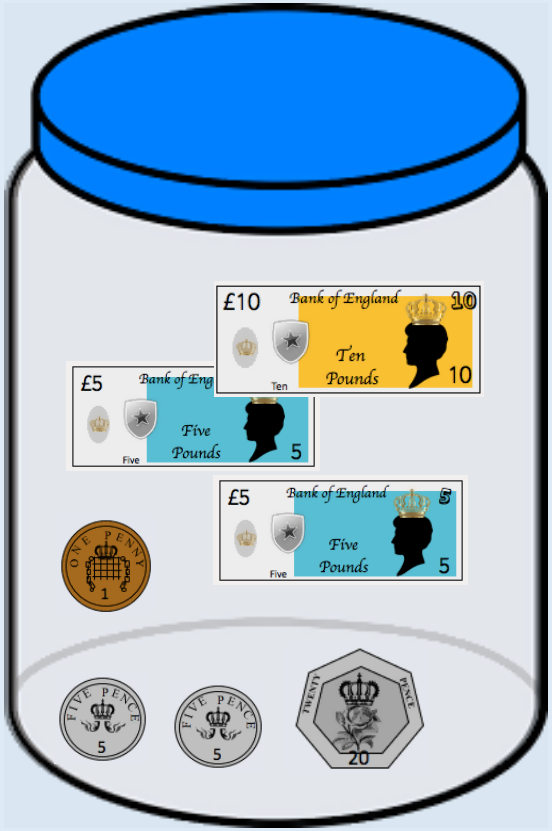

£_____ and _____p

# Activity 3 Pounds & Pence

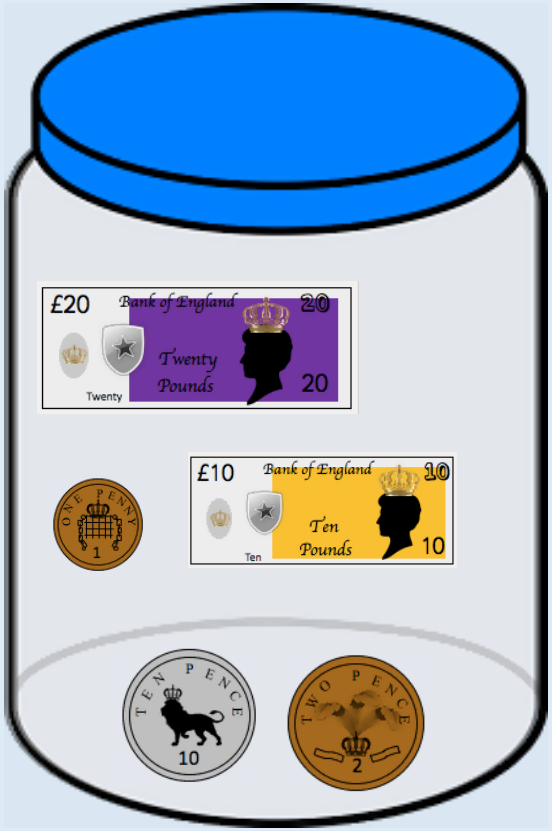
## How much money is in each jar?




£ 80 and 51 p




£ 20 and 31 p



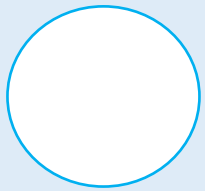

£ 30 and 13 p

# Activity 4 Pounds & Pence

Use comparison symbols to make the statements correct.

>, =, <



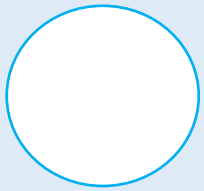














# Activity 4 Pounds & Pence

Use comparison symbols to make the statements correct.

>, =, <





=










>





# Reasoning 1 Pounds & Pence

Esin

Esin has five silver coins in her purse.

She can make 40p with three coins.

She can also make 75p with three coins.

How much money does Esin have in her purse?

# Reasoning 1 Pounds & Pence

Esin

Esin has five silver coins in her purse.

She can make 40p with three coins.

She can also make 75p with three coins.

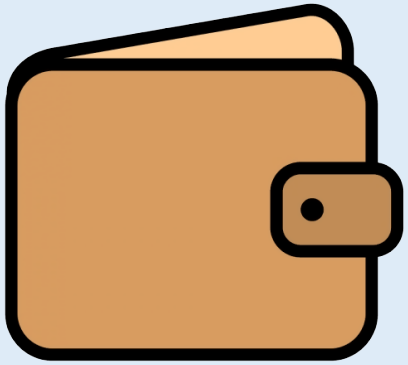
How much money does Esin have in her purse?

Esin has 95 pence in her purse.
She has one 20p coin, one 50p coin, two 10p coins and one 5p coin.

# Reasoning 2 Pounds & Pence

Zach has five different coins in his wallet.

Zach



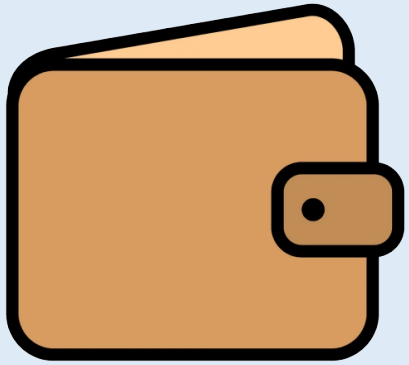
What is the greatest amount of money he could have in his wallet?

What is the least amount of money?

# Reasoning 2 Pounds & Pence

Zach has five different coins in his wallet.

Zach



What is the greatest amount of money he could have in his wallet?

What is the least amount of money?

Greatest:
£3 and 80p

Least:
38p

# Discuss & Think

# Pounds & Pence

What is the value of the coin/note?

What does p mean?

Why do we have different values of coins and notes?

What's the difference between £5 and 5p?

# Convert Pounds & Pence

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Fluency & Reasoning Teaching Slides

# Activity 1 Convert Pounds & Pence

## What is the total of the coins shown?


Can you group any of the coins to make 100 pence?
How many whole pounds do you have? How many pence are left over?

So there is £____ and ____p.

# Activity 1 Convert Pounds & Pence

## What is the total of the coins shown?


Can you group any of the coins to make 100 pence?
How many whole pounds do you have? How many pence are left over?

So there is £ 2 and 61 p.

# Activity 2 Convert Pounds & Pence

## What is the total of the coins shown?


Can you group any of the coins to make 100 pence?
How many whole pounds do you have? How many pence are left over?

So there is £____ and ____p.

# Activity 2 Convert Pounds & Pence

## What is the total of the coins shown?


Can you group any of the coins to make 100 pence?
How many whole pounds do you have? How many pence are left over?

So there is £ 2 and 34 p.

# Activity 3 Convert Pounds & Pence

## Write the amount in pounds and pence.


£____ and ____p


£____ and ____p

# Activity 3 Convert Pounds & Pence

## Write the amount in pounds and pence.


£ 3 and 88 p

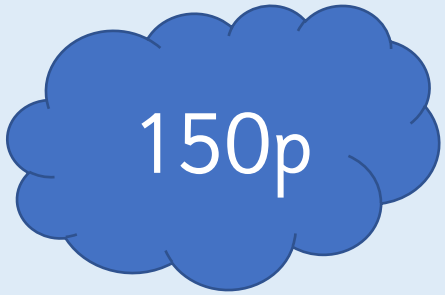

£ 6 and 61 p

# Activity 4 Convert Pounds & Pence

Write the amount in pounds and pence.


£____ and ____p


£____ and ____p




£____ and ____p


£____ and ____p

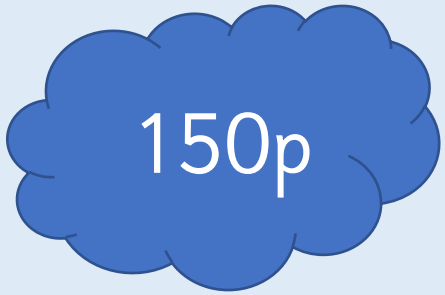

£____ and ____p

# Activity 4 Convert Pounds & Pence

Write the amount in pounds and pence.


£ 2 and 80 p


£ 7 and 99 p




£ 1 and 50 p


£ 1 and 75 p


£ 4 and 39 p

# Reasoning 1 Convert Pounds & Pence

Malachi

Malachi has 202 pence.

He has one pound coin.

Show five possible combinations of other coins he may have.

# Reasoning 1 Convert Pounds & Pence

Malachi

Malachi has 202 pence.

He has one pound coin.

Show five possible combinations of other coins he may have.

Children may work systematically and look at combinations of coins that make £1 to help them.

# Reasoning 2 Convert Pounds & Pence

Tia

Tia thinks that she has £20 and 4p.

Is she correct?


# Reasoning 2 Convert Pounds & Pence

Tia

Tia thinks that she has £20 and 4p.

Is she correct?



Tia is wrong. She has £23 and 1p.
Tia has not considered the value of the coins she has.

# Reasoning 3 Convert Pounds & Pence

Rosie

Rosie thinks there is more than £5 but less than £6. Is she correct?


# Reasoning 3

## Convert Pounds & Pence

Rosie

Rosie thinks there is more than £5 but less than £6. Is she correct?



Rosie is incorrect. There is £6 and 50p.
This is greater than £6.

# Discuss & Think

## Convert Pounds & Pence

How many pennies are there in £1?

How can this fact help you to convert between pounds and pence?

How could you convert 400p into pounds?

How could you convert 420p into pounds?

# Add Money

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Fluency & Reasoning Teaching Slides

# Activity 1 Add Money

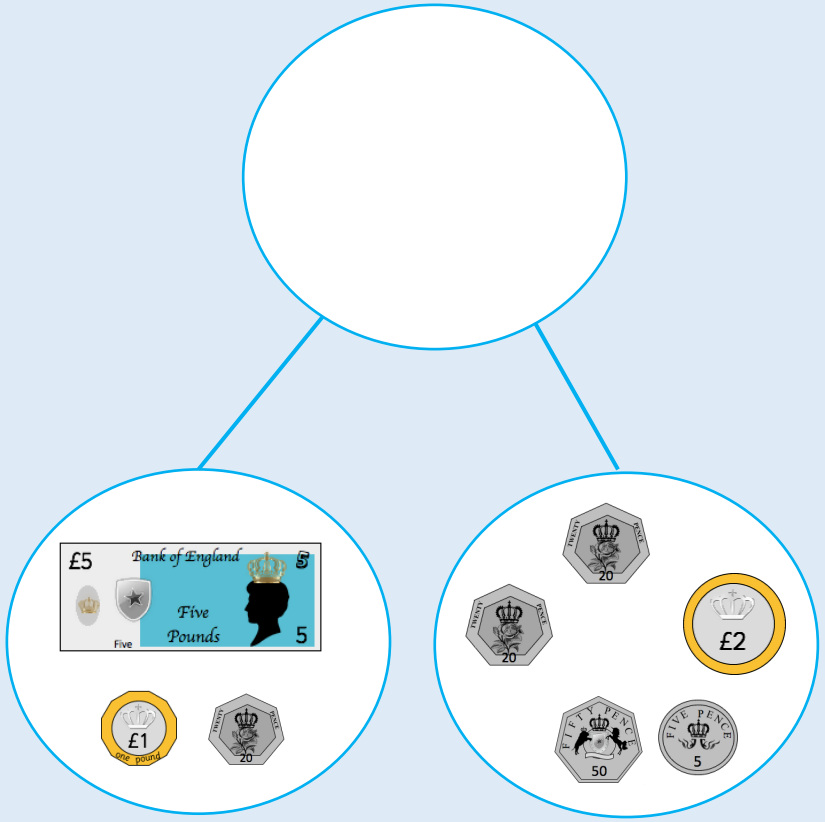
## Leanna uses a part-whole model to add money.

£_____ and _____ p + £_____ and _____p

There is £____ and 115p.

115p = £_____ and _____p

Altogether, there is £_____ and ____p.



# Activity 1 Add Money

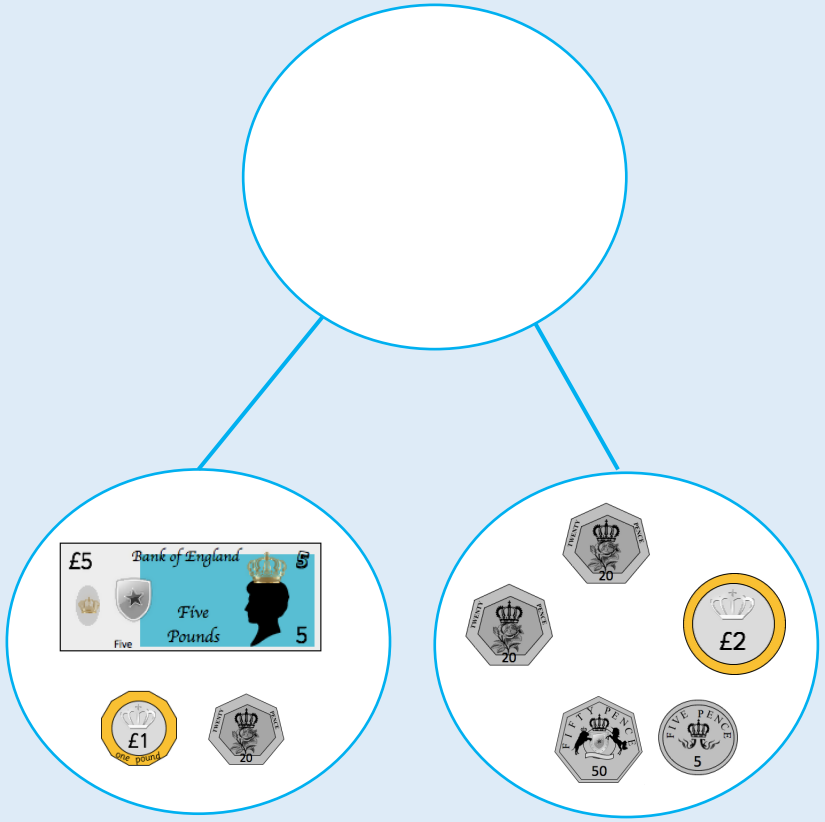
Leanna uses a part-whole model to add money.

£ 6 and 20 p + £ 2 and 95 p

There is £ 8 and 115p.

115p = £ 1 and 15 p

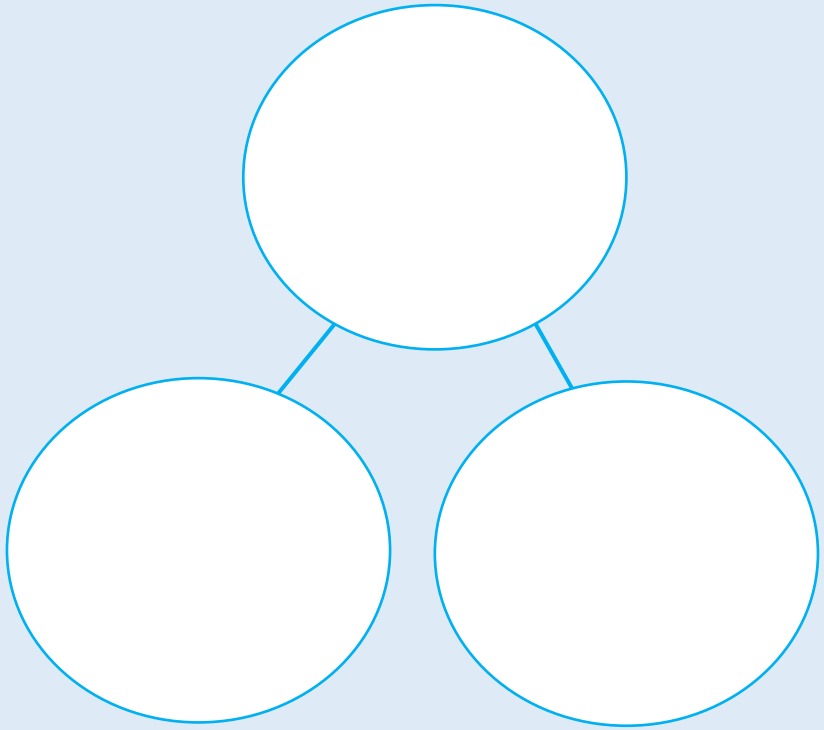
Altogether, there is £ 9 and 15 p.



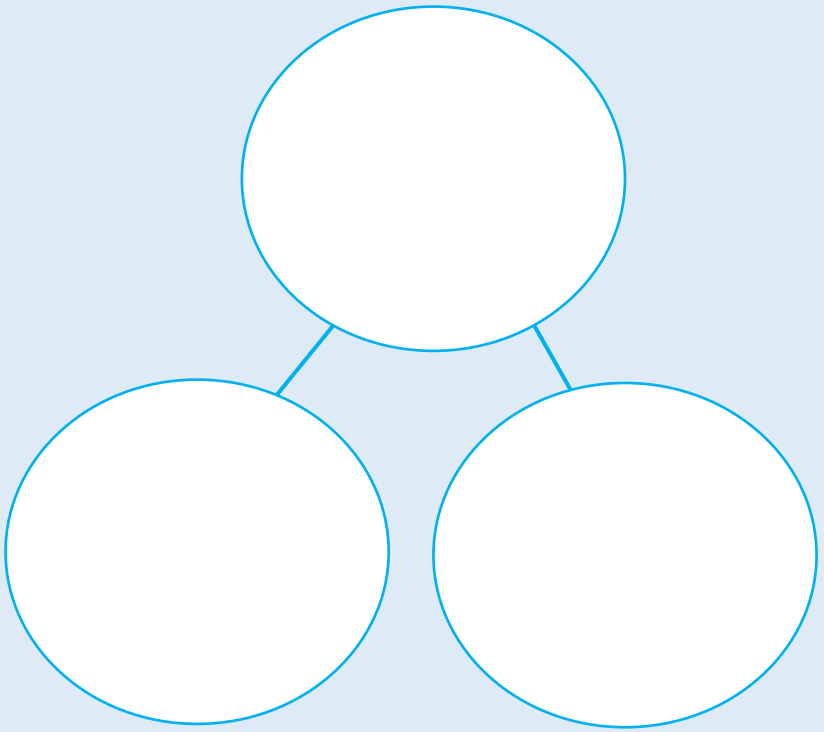
# Activity 2 Add Money

Use Leanna's method to calculate.

£4 and 55p and £3 and 60p



£11 and 75p and £10 and 50p



# Activity 2 Add Money

## Use Leanna's method to calculate.

### £4 and 55p and £3 and 60p

£ 4 and 55 p + £ 3 and 60 p

There is £ 7 and 115 p.

115p = £ 1 and 15 p

Altogether, there is £ 8 and 15 p.

### £11 and 75p and £10 and 50p

£ 11 and 75 p + £ 10 and 50 p

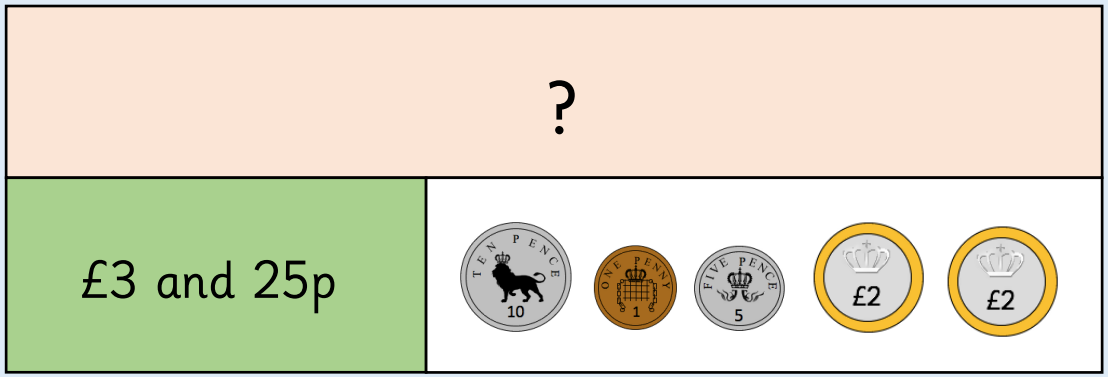
There is £ 21 and 125 p.

125p = £ 1 and 25 p

Altogether, there is £ 22 and 25 p.

# Activity 3 Add Money

What calculation does the bar model show?
Find the total amount of money.



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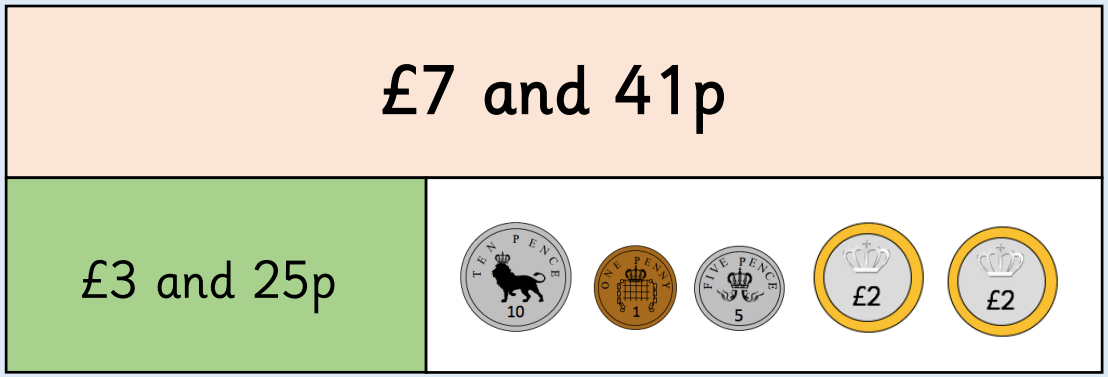
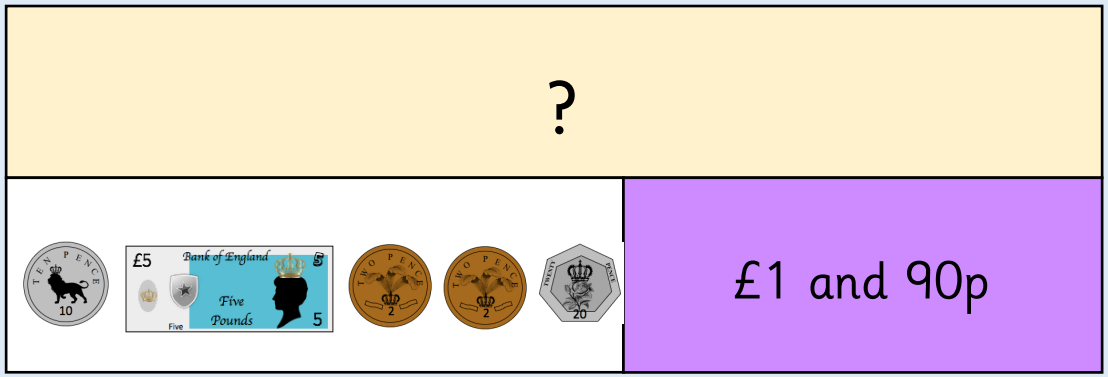


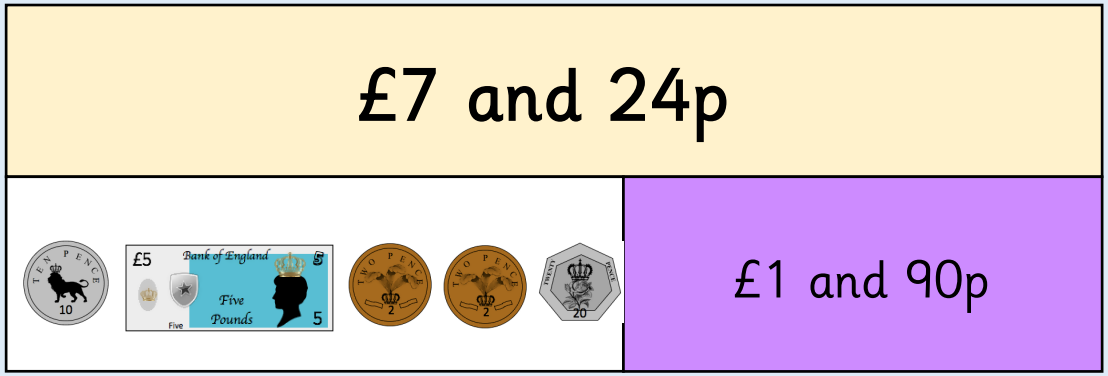
# Activity 4 Add Money

What calculation does the bar model show?
Find the total amount of money.



# Activity 4 Add Money

What calculation does the bar model show?
Find the total amount of money.



# Activity 5 Add Money

A car costs £5 and 20p.
A wooden horse costs £1 and 65p.

How much do the car and horse cost in total?


# Activity 5 Add Money

A car costs £5 and 20p.
A wooden horse costs £1 and 65p.

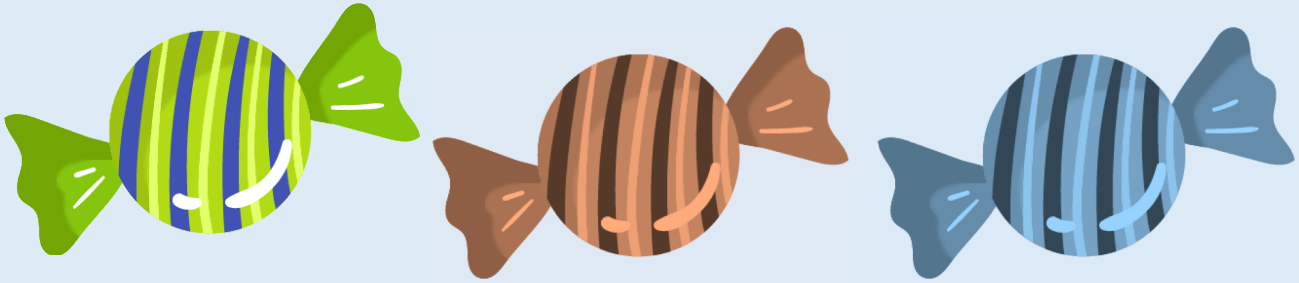
How much do the car and horse cost in total?

£6 and 85p


# Reasoning 1 Add Money

Leanna

Leanna bought these sweets.



Sweets cost 45p each. How much did Leanna spend?

Tia bought three times as many sweets as Leanna.

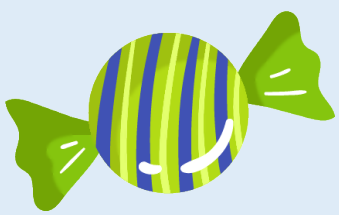
How many sweets did Tia buy?

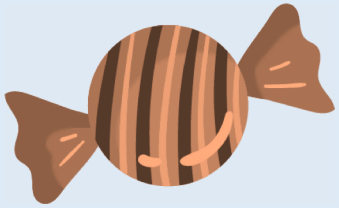
How much money did Tia spend on sweets?

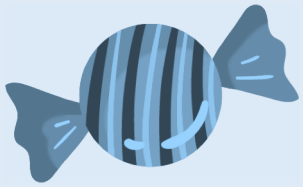
How much more money did Tia spend than Leanna?

# Reasoning 1 Add Money

Leanna bought these sweets.







Leanna

Sweets cost 45p each. How much did Leanna spend?

Tia bought three times as many sweets as Leanna.

How many sweets did Tia buy?

How much money did Tia spend on sweets?

How much more money did Tia spend than Leanna?

Leanna spent 135p or £1 and 35p

Tia bought 9 sweets. She spent 405p or £4 and 5p.

Tia spent 270p or £2 and 70p more than Leanna.

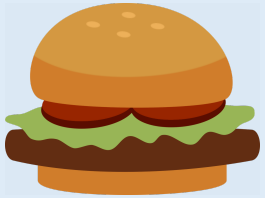
# Reasoning 2 Add Money

Rosie has £4.

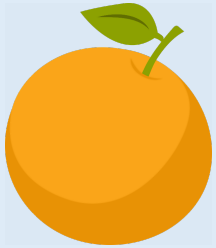
Has she got enough money to buy a burger and two oranges?

Rosie

£1 and 25p



£3 and 75p



95p

60p

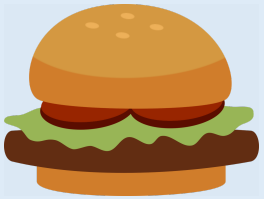
# Reasoning 2 Add Money

Rosie has £4.

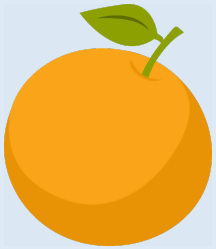
Has she got enough money to buy a burger and two oranges?

Rosie

£1 and 25p



£3 and 75p



95p

60p

£3 and 75p + 95p + 95p = £5 and 65p

She does not have enough money.

# Discuss & Think

## Add Money

Can you group any of the coins to make a pound?

Can you use estimation to support your calculation?

Why is adding 99p the same as adding £1 and taking away 1p?

# Subtract Money

# 3

Fluency & Reasoning Teaching Slides

# Activity 1 Subtract Money

Tia




Tia has £4 and 50p.
She gives £2 and 10p to her friend.

How much money does she have left?

# Activity 1 Subtract Money

Tia




Tia has £4 and 50p.
She gives £2 and 10p to her friend.

How much money does she have left?

£4 – £2 = £2

50p – 10p = 40p

Tia has £2 and 40p left.

# Activity 2 Subtract Money

Malachi

Malachi has £8 and 90p.
He gives £5 and 55p to his friend.

How much money does he have left?






# Activity 2 Subtract Money

Malachi

Malachi has £8 and 90p.
He gives £5 and 55p to his friend.

How much money does he have left?







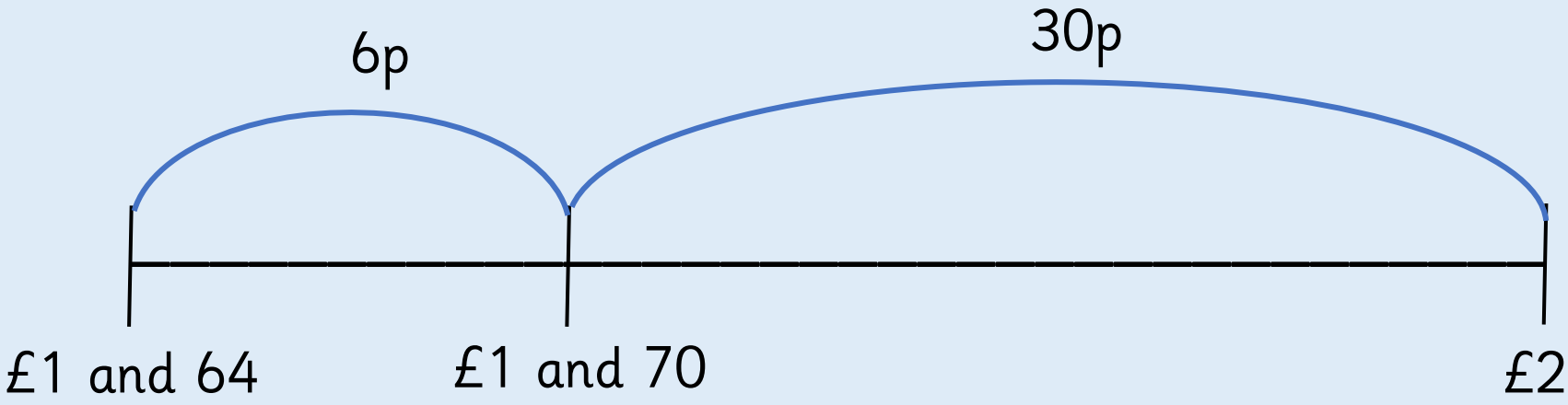
£8 – £5 = £3

90p – 55p = 35p

Malachi has £3 and 35p left.

# Activity 3 Subtract Money

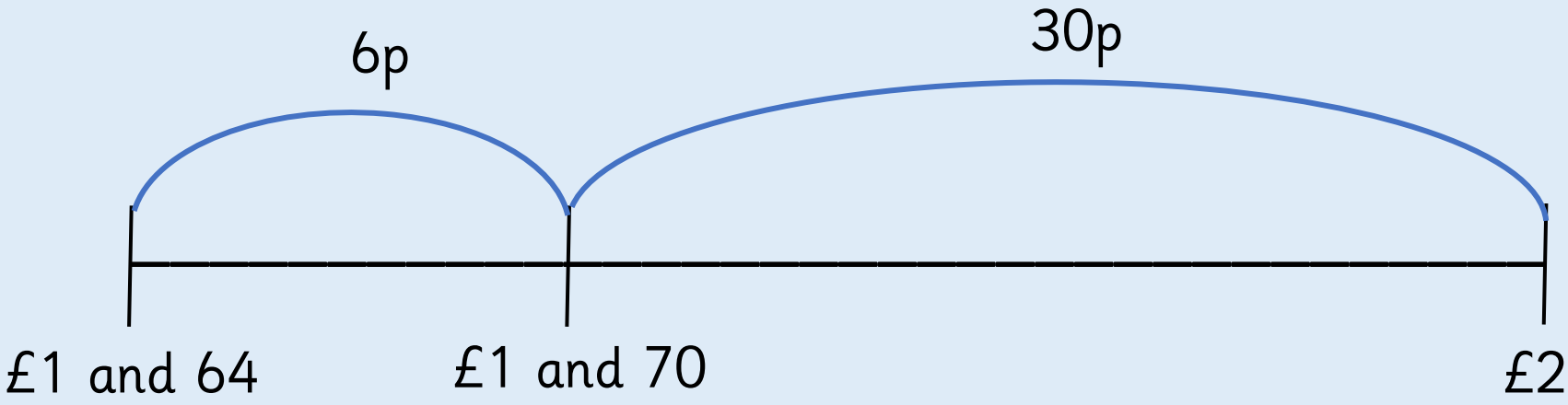
Malachi has £1 and 64 pence. Rosie has £2.
How much more money does Rosie have than Malachi?




Rosie has _____p more than Malachi.

# Activity 3 Subtract Money

Malachi has £1 and 64 pence. Rosie has £2.
How much more money does Rosie have than Malachi?




Rosie has 36 p more than Malachi.

# Activity 4

# Subtract Money


A T-shirt costs £6 and 40p.

In a sale, the T-shirt costs £4 and 70p.

How much has the cost of the T-shirt been reduced by?

# Activity 4

## Subtract Money


A T-shirt costs £6 and 40p.

In a sale, the T-shirt costs £4 and 70p.

How much has the cost of the T-shirt been reduced by?

£1 and 70p

# Reasoning 1 Subtract Money

Zach has £2 and 90p.

Malachi has three times as much money as Zach.

How much more money does Malachi have than Zach?

Rosie has twice as much money as Malachi.

How much more money does Rosie have than Zach?

# Reasoning 1 Subtract Money

Zach has £2 and 90p.

Malachi has three times as much money as Zach.

How much more money does Malachi have than Zach?

Rosie has twice as much money as Malachi.

How much more money does Rosie have than Zach?

Zach: £2 & 90p
Malachi: £8 & 70p
Rosie: £17 & 40p
Malachi has £5 and 80p more than Zach.
Rosie has £14 and 50p more than Zach.

# Reasoning 2 Subtract Money

Two children are calculating £4 and 20p minus £1 and 50p.

Esin

£4 – £1 = £2
20p – 50p = 30p
£1 + 30p = £1 and 30p

£4 and 20p – £2 = £2 and 20p
£2 and 20p + 50p = £2 and 70p

Leanna

Who is correct? Who is incorrect? Which method do you prefer?

# Reasoning 2 Subtract Money

Two children are calculating £4 and 20p minus £1 and 50p.

Esin

£4 – £1 = £2
20p – 50p = 30p
£1 + 30p = £1 and 30p

Esin's second step of calculation is incorrect. Leanna got the correct answer.

£4 and 20p – £2 = £2 and 20p
£2 and 20p + 50p = £2 and 70p

Leanna

Who is correct? Who is incorrect? Which method do you prefer?

# Discuss & Think

# Subtract Money

Can you make 50p in a different way to make it easier to subtract 10p physically?

Which number should you place on the number line first?

Could you count backwards on the number line?

Does this change the difference?

Do you need to exchange any pounds for pence?

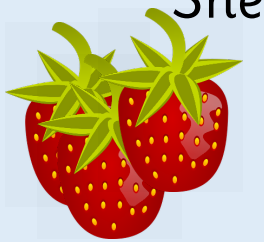
# Give Change

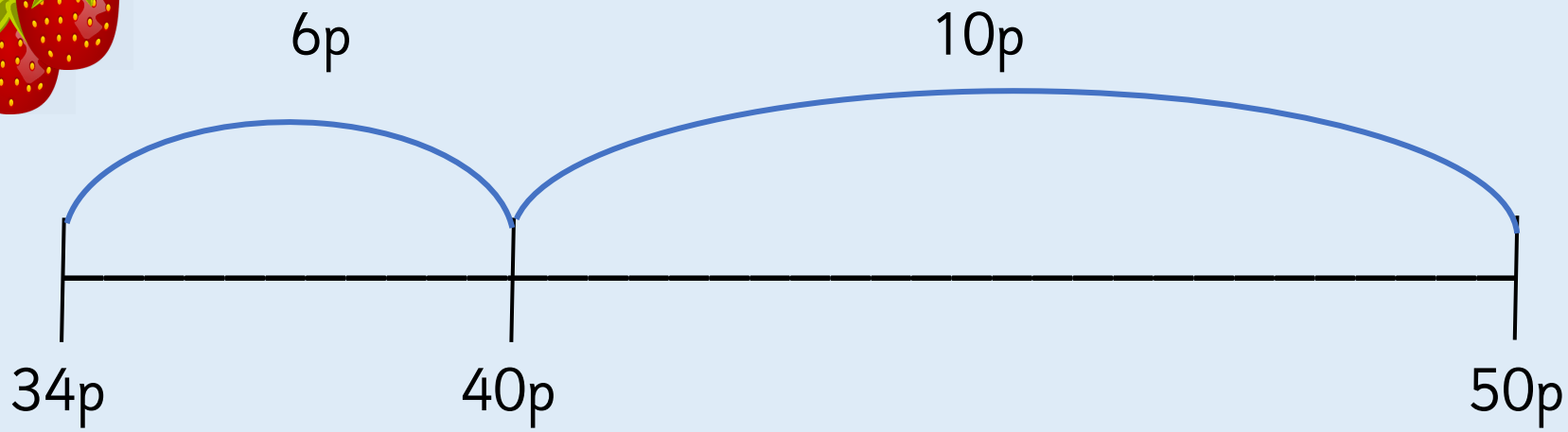
# 3

Fluency & Reasoning Teaching Slides

# Activity 1 Give Change

Cara buys some strawberries for 34p.
She pays with a 50p coin. How much change will she receive?

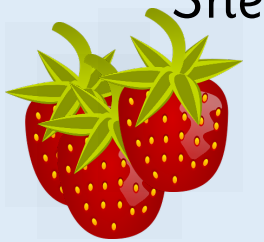


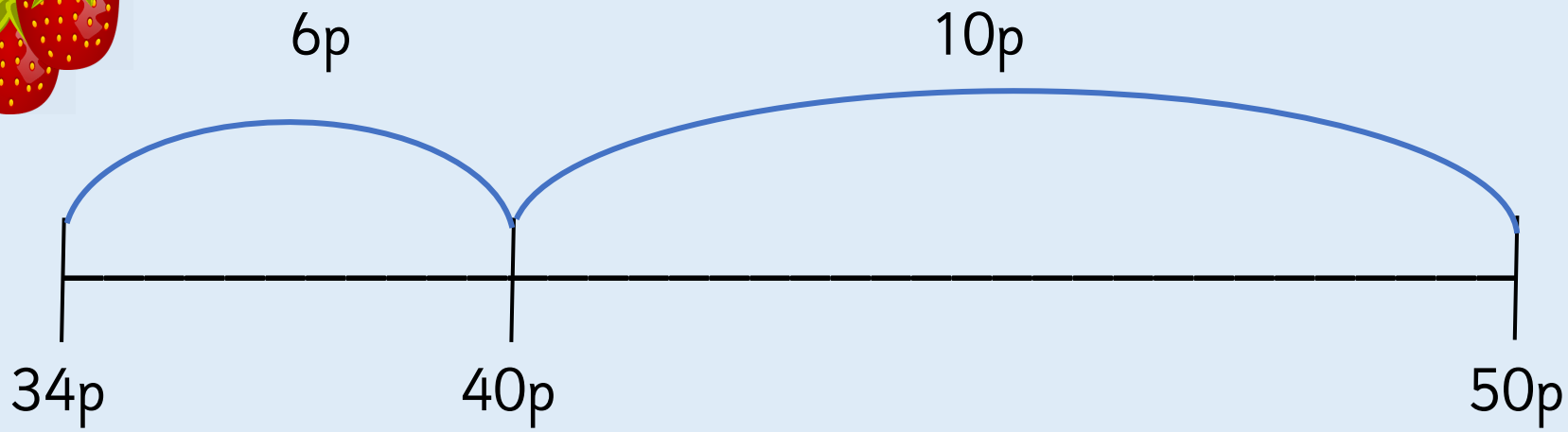



Cara receives _____p change.

# Activity 1 Give Change

Cara buys some strawberries for 34p.
She pays with a 50p coin. How much change will she receive?






Cara receives 16 p change.

# Activity 2 Give Change

Use a number line to solve the problems.

Jayda has £1. She buys a packet of crisps for 45p.

How much change will she receive?


Cara has £10.

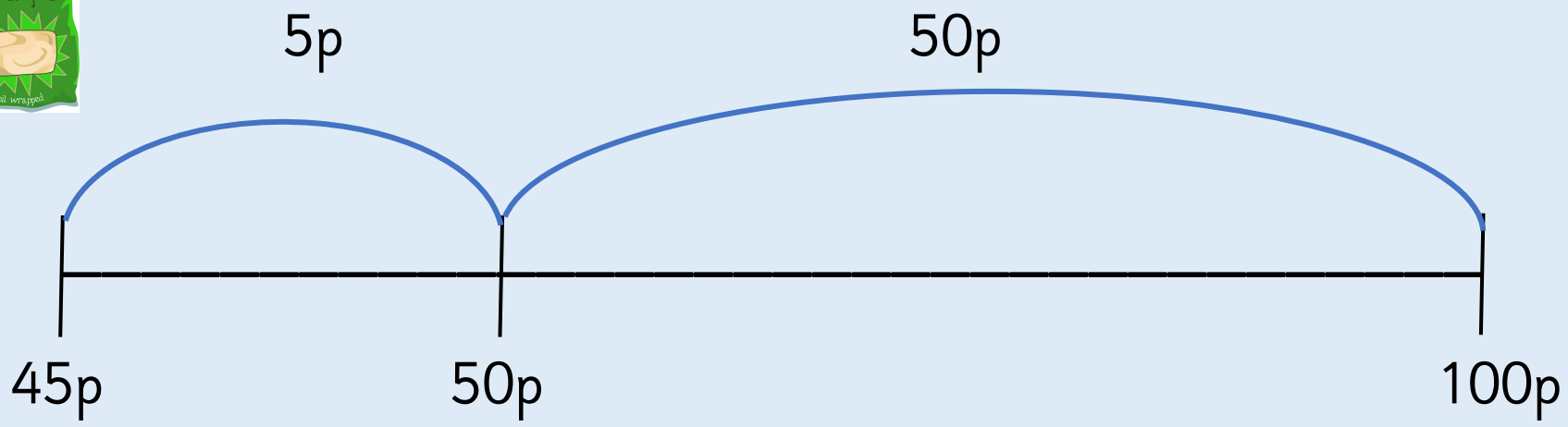
She spends £6 and 80p.

How much change will she receive?

# Activity 2 Give Change

Use a number line to solve the problems.

Jayda has £1. She buys a packet of crisps for 45p.
How much change will she receive?

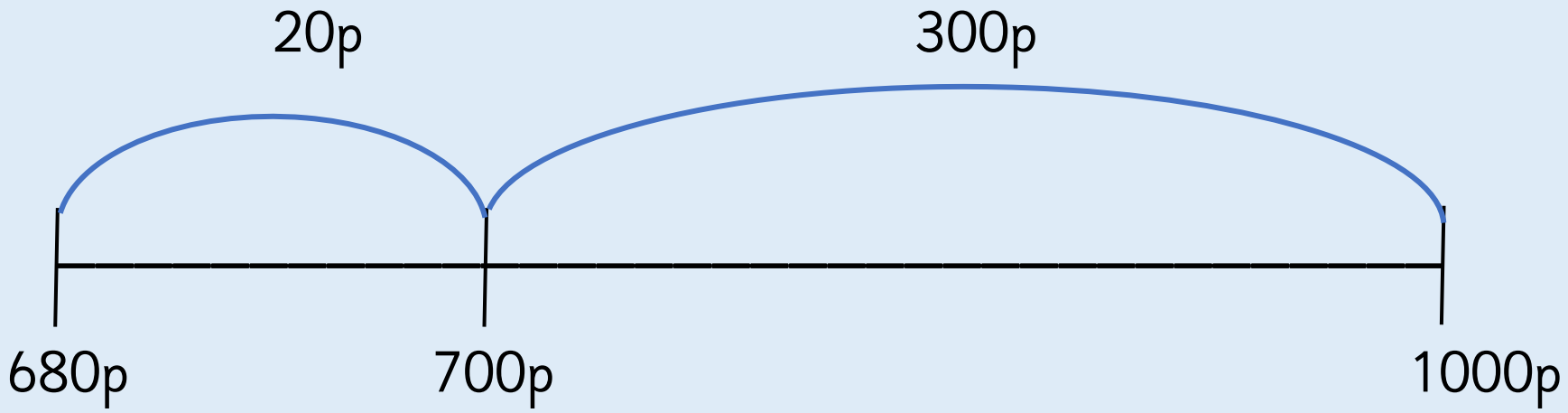




Jayda receives 55 p change.

# Activity 2 Give Change

Use a number line to solve the problems.


Cara has £10.
She spends £6 and 80p.
How much change will she receive?



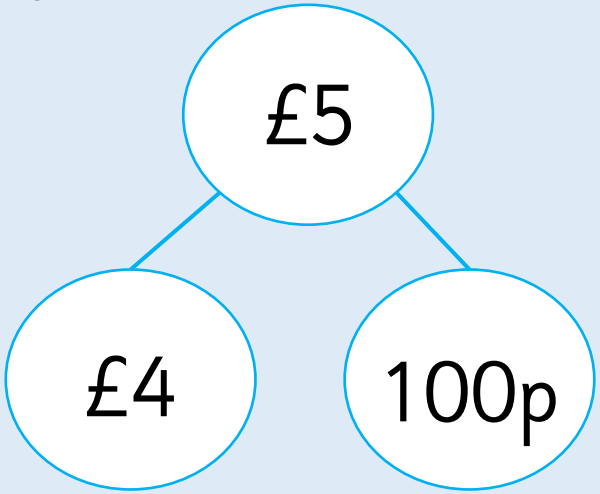

Cara receives 320 p change.

# Activity 3 Give Change

Malachi buys some books for £2 and 25p.
He pays with a £5 note.

How much change will he receive?

Use the part-whole model to help you.




# Activity 3 Give Change

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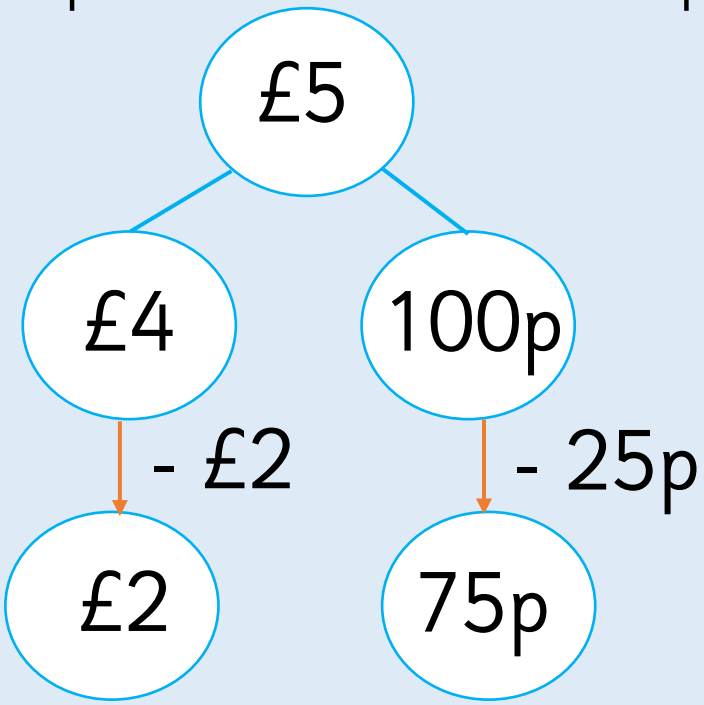
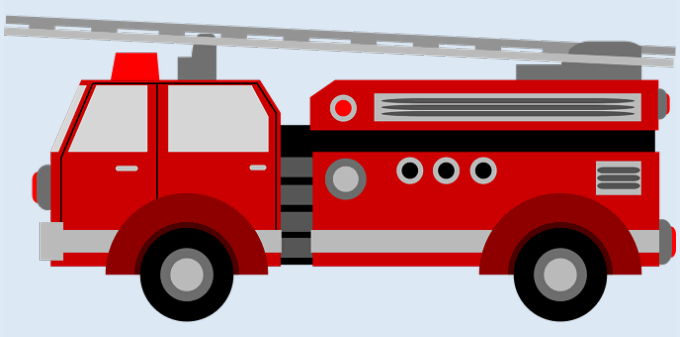



Malachi will receive £2 and 75p change.

# Activity 4 Give Change

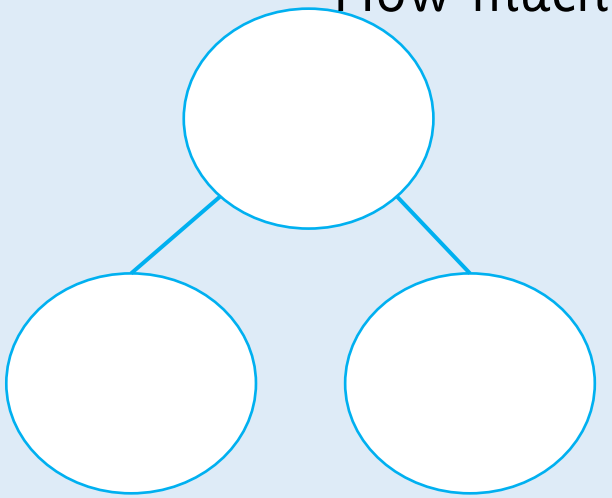
Use a part-whole model to solve the problem.



Leanna buys this fire engine for £7 and 65p.

She pays with a £10 note.

How much change will she receive?



# Activity 4 Give Change

Use a part-whole model to solve the problem.

Leanna buys this fire engine for £7 and 65p.

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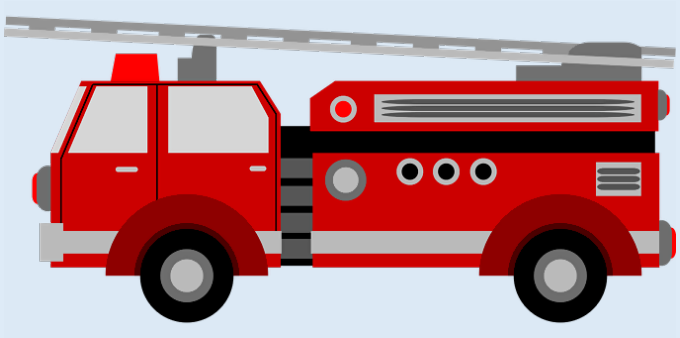

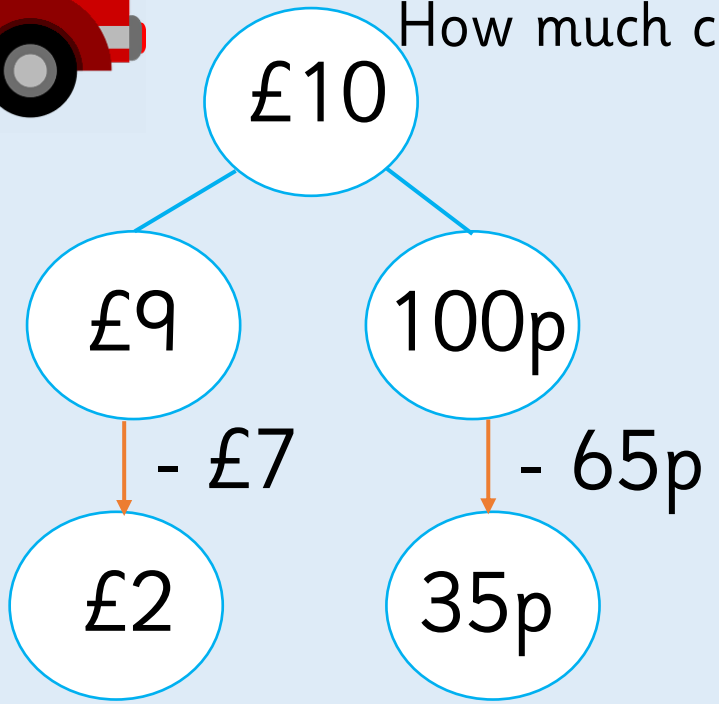


Leanna will receive £2 and 35p change.

# Reasoning 1 Give Change

Leanna spends £6 and 80p on party balloons.

She pays with a £10 note.
How much change does she get?

The cashier gives her six coins for her change.
What coins could they be?

# Reasoning 1 Give Change

Leanna spends £6 and 80p on party balloons.

She pays with a £10 note.
How much change does she get?

The cashier gives her six coins for her change.
What coins could they be?

Leanna receives £3 and 20p change.
The coins it could be: £1, £1, £1, 10p, 5p, 5p.

# Reasoning 2 Give Change

Malachi

Malachi has £5.
He buys a pencil for £1 and 20p and a book for £1 and 55p.

Which bar model represents the question?
Explain your answer.

| £1 and 20p | £1 and 55p | ? |
|---|---|---|

| £5 | £1 and 20p | £1 and 55p |
|---|---|---|

Use the correct bar model to help you calculate how much change Malachi receives.

# Reasoning 2 Give Change

Malachi

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He buys a pencil for £1 and 20p and a book for £1 and 55p.

Which bar model represents the question?
Explain your answer.

| | | |
|---|---|---|
| £1 and 20p | £1 and 55p | ? |

| | | |
|---|---|---|
| £5 | £1 and 20p | £1 and 55p |

The first bar model is correct as the whole must be £5 and we are calculating a part as Malachi has spent money. Malachi receives £2 and 25p change.

# Discuss & Think

## Give Change

What do we mean by ‘change’ in the context of money?

Which method do you find most effective?

How does the part-whole model help to solve the problem?