Diving into Mastery – Diving

Adult Guidance with Question Prompts

Children use their addition and subtraction skills to find how much they need to pay and how much change they would get. They can use a bar model to help (as modelled in the first question). Alternatively, they can count on or back in their heads, use number lines, coins or any other appropriate method.

How much did John spend on each item?

How much money did he owe?

How will you add the two values?

Why have you chosen that method?

What coin did he use to pay?

How many pence is £1?

Can you write a calculation to show what you need to do to work out the change?

What coins could he have been given?

Can you draw your own bar model for the next question?

Two-Step Problems

John buys a packet of crisps and a banana. Use a bar model to show how much he needed to pay.

_____ p	
_____ p	_____ p

He paid with £1. How much change did he get?

_____ p − _____ p = _____ p

Elena bought fruit juice and an apple. She paid with 90p. How much change did she get?

Ahmed bought an apple and a banana. He paid with a 50p coin. How much change did he get?

Diving into Mastery – Deeper

Adult Guidance with Question Prompts

Children reason about why 70p is not enough money to buy the items. They calculate how much she owed and decide what coins she should have given. Then calculate how much change she should get.

What does Rachel want to buy?

How much do they cost altogether?

How much did she try to pay with?

Why isn't that enough?

What coins could she have given instead?

How much change will she get?

What coins might she have in her purse now?

Two-Step Problems

Rachel has these coins in her purse:

She wants to buy these two items:

35p   40p

She gives the shop keeper these coins.

The shop keeper says she hasn't given enough money.

Why?

What coins could she have used?

How much change will she get?

What coins could she get in her change?

How much money will she have in her purse now?

Diving into Mastery – Deepest

Adult Guidance with Question Prompts

Children first work out how much Samuel spent. They then need to partition the total cost into two possible amounts. They should find different costs for these items. They could use bar models or part-whole models to represent these if desired.

How much did Samuel have?

How many items did he buy?

How much change did he get?

How can you work out what the two items cost altogether?

Now you know what the two items cost, how can you work out what they might have cost separately?

Can you represent four possibilities as bar models?

Two-Step Problems

Samuel had saved up £40.

He bought a book and a jigsaw puzzle.

He got £24 change.

How much did the two items cost altogether?

Each item cost a whole number of pounds.

What could each item have cost?

Draw bar models to show four possible answers.

£ _____	
£ _____	£ _____