

Shopping

Strand

Calculating

Learning objective

Use efficient written methods to add and subtract whole numbers and decimals with up to two decimal places

Type of starter

Refine

Whiteboard tools

- Drag one item from the shop into the shopping basket.
- Press 'check-out' to take the basket to the till on the next screen.
- Press one of the pink buttons on the till to specify the amount being used to pay (choose from £10, £20, £50 or £100).
- Drag the appropriate amount of change from the till into the change area.
- Press the 'sale' button to check if the amount of change taken is correct.
- Press 'clear' to start a new sale.

What to do

This activity is designed to refine children's use of column subtraction. Ask the children to select an item and then drag it into the shopping basket. Press 'check-out' to move to the till on the next screen. After choosing the amount of cash to pay for the item, challenge the children to work out the change that should be given. Ask them to do this on their individual whiteboards and discuss the calculations in class. Finally, ask them to drag the notes and coins you would use for the change from the till into empty area on the left-hand side of the screen. Press 'sale' to check calculations. Press 'back to shop' to repeat the activity with another item.

Differentiation

Less confident: select items that will produce easier subtraction calculations in order to build confidence.

More confident: ask children to round the cost of each item and estimate the change before proceeding with the exact calculation.

Key questions

- *What change should be given?*
- *What coins could you use to give the change?*

The image shows two screenshots of a 'Shopping' app. The left screenshot shows a shop with various items on shelves and a shopping basket. The right screenshot shows a till screen with a display, buttons for payment, and a change area.

shopping items
Select and drag an item into the basket

'check-out'
Press to move to the till on the next screen

money
Drag exact money from till

'sale'
Press to check if amount paid is correct

'clear'
Press to start new sale