## Reasoning and Problem Solving Step 4: Subtracting Money

## National Curriculum Objectives:

Mathematics Year 3: (3C1) Add and subtract numbers mentally, including three-digit number and ones

## Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Find the difference between two amounts and explain the method used. Subtractions do not involve any exchanges. Pictorial support and scaffolding provided. Expected Find the difference between two amounts and explain the method used.
Subtractions involve some exchanges.
Greater Depth Find the difference between two amounts and explain the method used.
Subtractions involve exchanges and conversions between $£$ and $p$.
Questions 2, 5 and 8 (Reasoning)
Developing Find and explain the error in a subtraction which does not involve any exchanges. Pictorial support provided.
Expected Find and explain the error in a subtraction which involves some exchanges.
Greater Depth Find and explain the error in a subtraction which involves exchanges and conversions between $£$ and $p$.

Questions 3, 6 and 9 (Problem Solving)
Developing Complete the missing numbers in a subtraction which does not involve any exchanges. Pictorial support provided.
Expected Complete the missing numbers in a subtraction which involves some exchanges.
Greater Depth Complete the missing numbers in a subtraction which involves exchanges and conversions between $£$ and $p$.

## More Year 3 Money resources.

Did you like this resource? Don't forget to review it on our website.

1a．Emma and Tom have saved some money．


1b．Kim and Dan have saved some money．

£6 and 80 p－$£ 4$ and 30 p $=£ \ldots$ and＿＿p
How much more money does Emma have than Tom？Explain how you know．

2a．Gracie says，


Explain the mistake Gracie has made．號

3a．Find possible values of the hidden digits．Complete the subtraction，without exchanges，using all of the cards below．

£8 and 70p－$£ 3$ and $40 \mathrm{p}=£$
$\qquad$ and $\qquad$ p
How much more money does Kim have than Dan？Explain how you know．

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2b．Harold says，


Explain the mistake Harold has made．

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3b．Find possible values of the hidden digits．Complete the subtraction，without exchanges，using all of the cards below．

$£ \square$ and $\square \mathrm{Op}-£ \square$ and $\square \mathrm{op}=\underset{\downarrow}{\downarrow} \underset{\downarrow}{ }$ and 40 p PS

4a. Holly and Matt have saved some money.


How much more money does Matt have than Holly? Explain how you know.


5a. Harry says,


I have $£ 6$ and 20 p and I spend 55 p on sweets. This means I will have $£ 5$ and 55 p left.


Explain the mistake that Harry has made.

6a. Find possible values of the hidden digits. Complete the subtraction using 4 of the cards below. Find 2 possible solutions.

$£ \square$ and $\square 5 \mathrm{p}-£ \square$ and $\square 0 \mathrm{p}=£ 3$ and 45 p

4b. Kate and Sam have saved some money.


How much more money does Kate have than Sam? Explain how you know.

5b. Pam says,

Explain the mistake that Pam has made.

6b. Find possible values of the hidden digits. Complete the subtraction using 4 of the cards below. Find 2 possible solutions.



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7a. Jamie and Sarah have saved some money.


How much more money does Jamie have than Sarah? Explain how you know.


8a. Trixie says,


Explain the mistake that Trixie has made.

9a. Complete the subtraction using the cards below so that the answer is greater than 450 p but less than $£ 6$ and 25 p.


7b. Sue and Josh have saved some money.


How much more money does Sue have than Josh? Explain how you know.

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8b. Dane says,


Explain the mistake that Dane has made.

9b. Complete the subtraction using the cards below so that the answer is greater than 634p but less than $£ 8$ and 42p.


PS

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## Reasoning and Problem Solving Subtracting Money

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## Developing

1b. Kim has $£ 5$ and 30 p more than Dan because $£ 8$ and 70 p $-£ 3$ and $40 p=£ 5$ and 30 p .
2b. Harold has subtracted $£ 2$ and 20 p instead of $£ 2$ and 30 p. $£ 3$ and 70 p- $£ 2$ and $30 \mathrm{p}=£ 1$ and 40 p .
3b. $£ \underline{7}$ and $\underline{9} 0 p-£ \underline{4}$ and $\underline{50 p}=£ 3$ and $40 p$.

## Expected

4b. Kate has $£ 1$ and 40 p more than Sam because $£ 6$ and $95 p-£ 5$ and $55 p=£ 1$ and 40 p.
5b. Pam has calculated $£ 5$ and 75 p - $£ 1$ incorrectly. $£ 5$ and 75 p $-£ 1=£ 4$ and 75 p, not $£ 4 . £ 5$ and $75 p-£ 1$ and $80 p=£ 3$ and 95p.
6b. Various answers, for example:
$£ \underline{8}$ and $95 p-£ \underline{4}$ and $\underline{7} 0 p=£ 4$ and $25 p$ or $£ \underline{8}$ and $\overline{7} 5 p-£ \underline{4}$ and $\underline{5} 0 p=£ 4$ and $25 p$

## Greater Depth

7b. Sue has $£ 9$ and 47 p more than Josh because $£ 18$ and 95 p - $£ 9$ and $48 \mathrm{p}=£ 9$ and 47 p.
8b. Dane has subtracted $£ 7$ and 13p instead of $£ 7$ and 31 p. The correct answer is: $£ 17$ and $31 \mathrm{p}-£ 8$ and $95 \mathrm{p}=£ 8$ and 36 p .
9b. Various answers, for example:
$£ \underline{13}$ and $48 p-£ 6$ and $\underline{52 p}=£ \underline{6}$ and $9 \underline{6} p$.

