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.

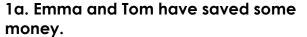
More Year 3 Money resources.

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Subtracting Money

Subtracting Money







£6 and 80p - £4 and 30p = £__and __p How much more money does Emma have than Tom? Explain how you know. 1b. Kim and Dan have saved some money.





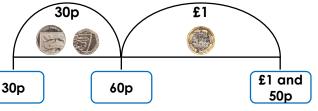
£8 and 70p - £3 and 40p = £__and __p How much more money does Kim have than Dan? Explain how you know.



2a. Gracie says,



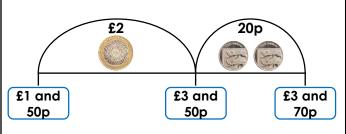
I have £1 and 50p and I spend £1 and 30p on a drink. This means I will have 30p left.



Explain the mistake Gracie has made.



I have £3 and 70p and I spend £2 and 30p on a book. This means I will have £1 and 50p left.



Explain the mistake Harold has made.



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













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



















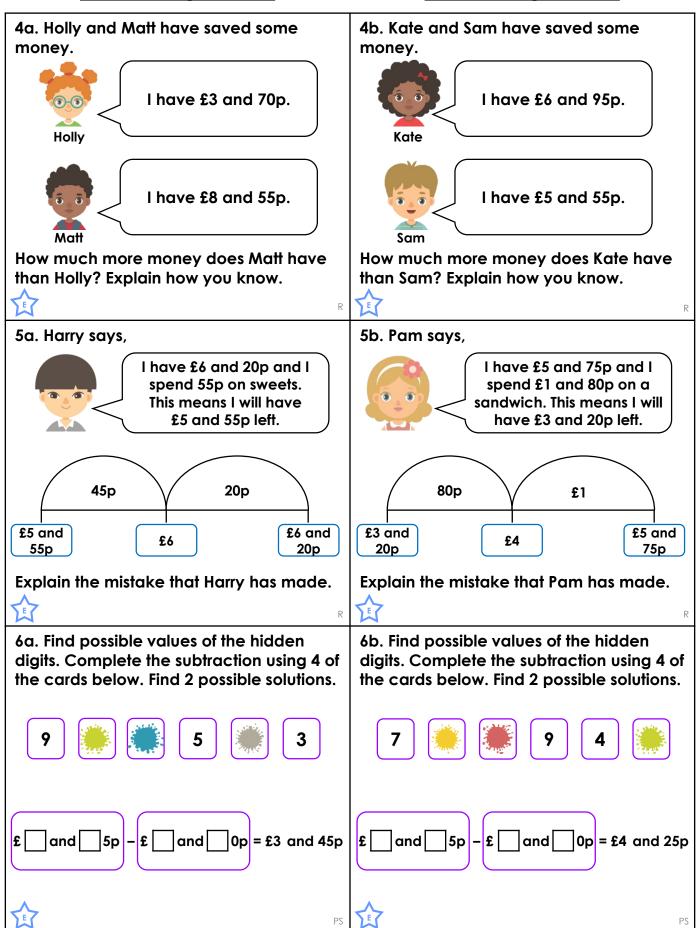




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Subtracting Money

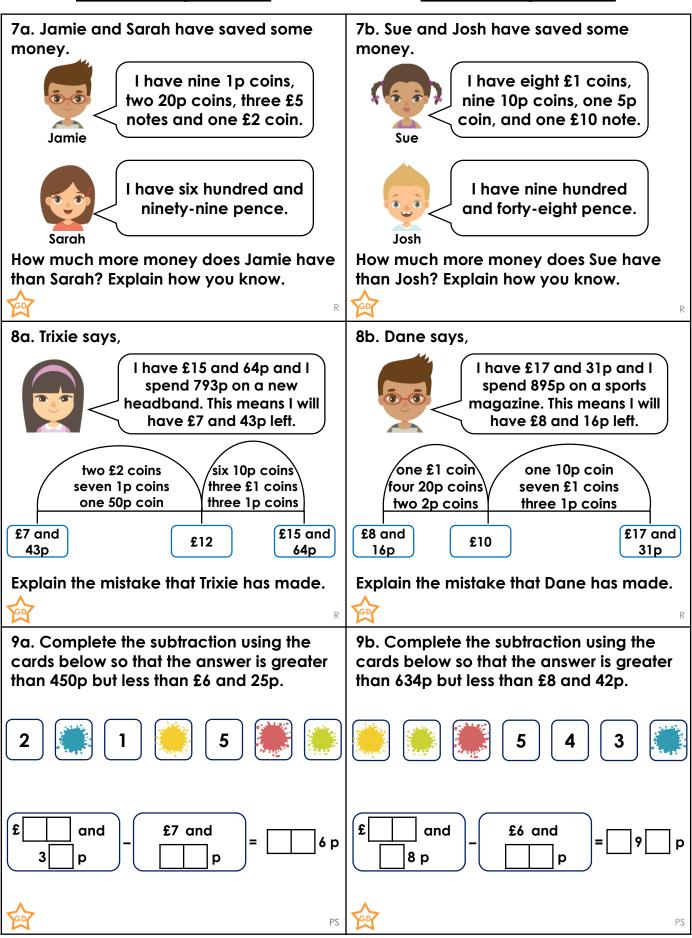
Subtracting Money





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Reasoning and Problem Solving Subtracting Money

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Developing

1a. Emma has £2 and 50p more than Tom because £6 and 80p - £4 and 30p = £2 and 50p.

2a. Gracie has calculated £1 and 50p - £1 incorrectly. £1 and 50p - £1 = 50p, not 60p. £1 and 50p - £1 and 30p = 20p. 3a. £9 and 60p - £4 and 30p = £5 and 30p.

Expected

4a. Matt has £4 and 85p more than Holly because £8 and 55p - £3 and 70p = £4 and 85p.

5a. Harry has subtracted 65p instead of 55p because 20p + 45p = 65p. £6 and 20p - 55p = £5 and 65p.

6a. Various answers, for example: £8 and 75p - £5 and 30p = £3 and 45p or £7 and 95p - £4 and 50p = £3 and 45p

Greater Depth

7a. Jamie has £10 and 50p more than Sarah because £17 and 49p - £6 and 99p = £10 and 50p.

8a. Trixie has subtracted £15 and 64p - £3 and 63p incorrectly as it should equal £12 and 1p. The correct answer is: £15 and 64p - £7 and 93p = £7 and 71p.

9a. Various answers, for example: £13 and 35p - £7 and 29p = £6 and 6p.

Developing

1b. Kim has £5 and 30p more than Dan because £8 and 70p - £3 and 40p = £5 and 30p.

2b. Harold has subtracted £2 and 20p instead of £2 and 30p. £3 and 70p - £2 and 30p = £1 and 40p.

3b. £ $\frac{7}{2}$ and $\frac{9}{2}$ 0p – £ $\frac{4}{2}$ and $\frac{5}{2}$ 0p = £3 and 40p.

Expected

4b. Kate has £1 and 40p more than Sam because £6 and 95p - £5 and 55p = £1 and 40p.

5b. Pam has calculated £5 and 75p - £1 incorrectly. £5 and 75p - £1 = £4 and 75p, not £4. £5 and 75p - £1 and 80p = £3 and 95p.

6b. Various answers, for example: £8 and $\underline{9}$ 5p – £4 and $\underline{7}$ 0p = £4 and 25p or £8 and $\underline{7}$ 5p – £4 and $\underline{5}$ 0p = £4 and 25p

Greater Depth

7b. Sue has £9 and 47p more than Josh because £18 and 95p - £9 and 48p = £9 and 47p.

8b. Dane has subtracted £7 and 13p instead of £7 and 31p. The correct answer is: £17 and 31p – £8 and 95p = £8 and 36p. 9b. Various answers, for example: £13 and 48p - £6 and 52p = £6 and 96p.

