

Reasoning and Problem Solving

Step 2: Converting Pounds and Pence

National Curriculum Objectives:

Mathematics Year 3 (3M9a) [Add and subtract amounts of money to give change, using both £ and p in practical contexts](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Comparing two amounts, one written in pounds and one shown in coins. Describe how one is more than the other. Coins are grouped into values of 100p.

Expected Compare two amounts, one written in pounds and one shown with notes and coins. Describe how one is more than the other. Coins are ungrouped with some conversion between pounds and pence.

Greater Depth Compare two amounts, both written in pounds and pence. Describe how one is more than the other. Totals provided without pictorial representation and some totals need to be calculated before conversion.

Questions 2, 5 and 8 (Reasoning)

Developing Explain who is correct when converting the notes and coins displayed as written values. Pictorial representation shown with notes and coins grouped into values of 100p.

Expected Explain who is correct when converting pence to pounds and pence. Totals provided without pictorial representation.

Greater Depth Explain who is correct when converting amounts to pounds and pence. Totals provided without pictorial representation and some totals need to be calculated before conversion.

Questions 3, 6 and 9 (Problem Solving)

Developing Find three possible totals made with 6 coins. Record totals in pounds and pence and in pence. Pictorial representation shown with coins grouped into values of 100p.

Expected Find three possible totals made with 4 coins. Record totals in pounds and pence and in pence. Totals provided without pictorial representation.

Greater Depth Find four possible totals made with 4 coins and 1 note. Record totals in pounds and pence and in pence. Totals provided without pictorial representation.

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Converting Pounds and Pence

Converting Pounds and Pence

1a. Elsa has these coins in her money box. Does she have enough money to buy a book that costs £1 and 45p? Convince me.



R

1b. Charlie has these coins in his money box. Does he have enough money to buy a yoyo that costs £2 and 12p? Convince me.



R

2a. Helen and Tariq are counting the money below. They say,



I think the coins total = £5 and 40p.

Helen

I think the coins total = 522p



Tariq

Who is correct? Explain why.



R

2b. Amy and Fred are counting the money below. They say,



I think the coins total = £5 and 55p.

Amy

I think the coins total = 600p



Fred

Who is correct? Explain why.



R

3a. Jack takes a total of 3 coins from the piles. How much money could he have? Write three possible answers.



Written in pounds and pence

Written in pence



PS

3b. Emily takes a total of 3 coins from the piles. How much money could she have? Write three possible answers.



Written in pounds and pence

Written in pence



PS

Converting Pounds and Pence

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4a. Sam has this note and these coins in his pocket. Does he have enough money to buy a jumper that costs £11 and 75p? Convince me.



R

4b. Priya has this note and these coins in her pocket. Does she have enough money to buy a DVD that costs £6 and 59p? Convince me.



R

5a. Vince and Violet are converting 583p into pounds and pence. They say,



Vince

I think $583p = £5$ and 83p.

I think $583p = £58$ and 3p.



Violet

Who is correct? Explain why.



R

5b. Belle and Andy are converting 506p into pounds and pence. They say,



Belle

I think $506p = £5$ and 6p.

I think $506p = £50$ and 6p.



Andy

Who is correct? Explain why.



R

6a. Molly has 4 different coins in her purse; three silver coins and one £2 coin.

How much money could be in her purse? Write three possible answers.

Written in pounds and pence	Written in pence



PS

6b. Yuvi has 4 coins in his wallet, a £1 coin; a 10p coin and two other coins.

How much money could be in his wallet? Write three possible answers.

Written in pounds and pence	Written in pence



PS

Converting Pounds and Pence

Converting Pounds and Pence

7a. Josh wants to buy a game that costs £17 and 86p. He writes down the notes and coins he has. Does he have enough? Convince me.

One £10 note, five £1 coins, four 50p coins, six 20p coins and three 2p coins.



R

7b. Lily wants to buy some headphones that cost £19 and 49p. She writes down the notes and she has. Does she have enough? Convince me.

Two £5 notes, four £2 coins, five 10p coins, ten 5p coins and nine 1p coins.



R

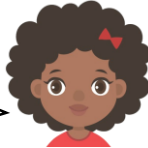
8a. Liam and Dina are converting two lots of £5 notes, seven £1 coins and eleven 10p coins into pounds and pence. They say,



Liam

I think the total is less than £18 and 1p.

I think the total = £18 and 10p.



Dina

Who is correct? Explain why.



R

8b. Archie and Huma are converting ten £1 coins, three lots of £2 coins and seven 20p coins into pounds and pence. They say,



Archie

I think the total = £17 and 40p

I think is greater than £19 and 40p.



Huma



R

9a. Elliot has one £5 note and four different coins in his money box. At least one coin is bronze. How much money could be his money box? Write four possible answers.

Written in pounds and pence	Written in pence



PS

9b. Becky has one £5 note and four coins in her money box. Two of the coins are silver. How much money could be in her money box? Write four possible answers.

Written in pounds and pence	Written in pence



PS

Reasoning and Problem Solving Converting Pounds and Pence

Developing

- 1a. Elsa has 125p = £1 and 25p. £1 and 25p is less than £1 and 45p so she doesn't have enough money.
- 2a. Helen is correct because she has recognised that 500p = £5 so 540p = £5 and 40p.
- 3a. Various answers, for example: £1 and 50p = 150p; £3 = 300p; £4 and 50p = 450p.

Expected

- 4a. Sam has £10 and 165p = £11 and 65p. £11 and 65p is less than £11 and 75p so he doesn't have enough money.
- 5a. Vince is correct because he has recognised that 500p = £5 so 583p = £5 and 83p.
- 6a. Various answers, for example: £2 and 80p = 280p; £2 and 35p = 235p; £2 and 65p = 265p.

Greater Depth

- 7a. Josh has £10 and 826p = £18 and 26p. £18 and 26p is greater than £17 and 86p so Josh does have enough money.
- 8a. Dina is correct because she has recognised that two lots of £5 = £10 so £10 and 810p = £18 and 10p.
- 9a. Various answers, for example: £8 and 52p = 852p; £6 and 71p = 671p; £5 and 82p = 582p; £7 and 16p = 716p.

Reasoning and Problem Solving Converting Pounds and Pence

Developing

- 1b. Charlie has 213p = £2 and 13p. £2 and 13p is greater than £2 and 12p so he does enough money.
- 2b. Fred is correct because he has recognised that 500p = £5 so £6 = 600p.
- 3b. Various answers, for example: £2 = 200p; £2 and 50p = 250p; £3 = 300p.

Expected

- 4b. Priya has £5 and 170p = £6 and 70p. £6 and 70p is greater than £6 and 59p so she does have enough money.
- 5b. Belle is correct because she has recognised that 500p = £5 so 506p = £5 and 6p.
- 6b. Various answers, for example £3 and 11p = 311p; £1 and 65p = 165p; £1 and 32p = 132p.

Greater Depth

- 7b. Lily has £10 and 909p = £19 and 9p. £19 and 9p is less than £19 and 49p so Lily doesn't have enough money.
- 8b. Archie is correct because he has recognised that ten £1 coins = £10 so £10 and 740p = £17 and 40p.
- 9b. Various answers, for example: £8 and 55p = 855p; £6 and 32p = 632p; £7 and 26p = 726p; £5 and 63p = 563p.