Reasoning and Problem Solving
Step 1: Pounds and Pence

National Curriculum Objectives:

Mathematics Year 4: (4M1) Compare different measures including money in pounds and pence
Mathematics Year 4: (4M2) Estimate different measures including money in pounds and pence
Mathematics Year 4: (4M9) Calculate different measures including money in pounds and pence
Mathematics Year 4: (4F10b) Solve simple measure and money problems involving fractions and decimals to two decimal places

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Calculate the amount of money listed and if it is enough to buy an item at a set price. Explain your answer. Limited to three coins with no repetition of value.
Expected Calculate the amount of money listed and if it is enough to buy an item at a set price. Explain your answer. With repeated coins.
Greater Depth Calculate the amount of money listed and if it is enough to buy an item at a set price. Explain your answer. Including amounts that cross from p to £.

Questions 2, 5 and 8 (Problem Solving)
Developing Match the value in £ and p to the correct money pictured where the pence never goes over 100.
Expected Match the value in £ and p to the correct money pictured where the pence can go over 100.
Greater Depth Match the value in £ and p to the correct money pictured with multiple repeat coins and the pence can go over 1000.

Questions 3, 6 and 9 (Problem Solving)
Developing Work out coin combinations based on the amount of money in £ and p
Expected Work out coin combinations based on the amount of money in £ and p where there could be more than one correct answer.
Greater Depth Work out coin combinations based on the amount of money in £ and p where there are multiple correct answers.

More Year 4 Money resources.

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

Pounds and Pence

1a. Sam and Alex both want to buy an ice cream. An ice cream costs £1.25.

Sam says, "I have a £1 coin, a 20p coin and a 5p coin."

Alex says, "I have a £1 coin and a 5p coin."

Who can afford to buy an ice cream? Explain how you know.

D R

Pounds and Pence

1b. Max and Jay both want to buy a packet of crisps. A packet costs £1.10.

Max says, "I have a £1 coin, a 5p coin and a 2p coin."

Jay says, "I have a £1 coin and a 5p coin and a 10p coin."

Who can afford to buy the crisps? Explain how you know.

D R

2a. Jon has £2.50. Annie has £1.25. Match each child to their correct money purse.

Jon

Annie

A

B

D PS

2b. Sam has £1.50. Manon has £1.30. Match each child to their correct money purse.

Sam

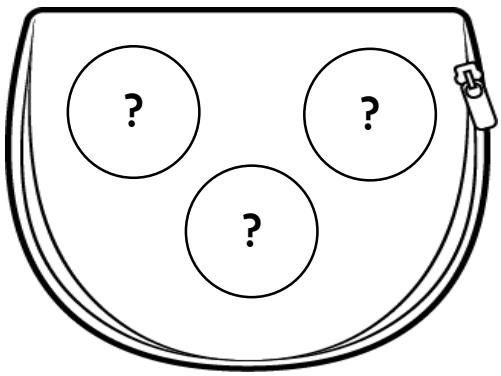
Manon

A

B

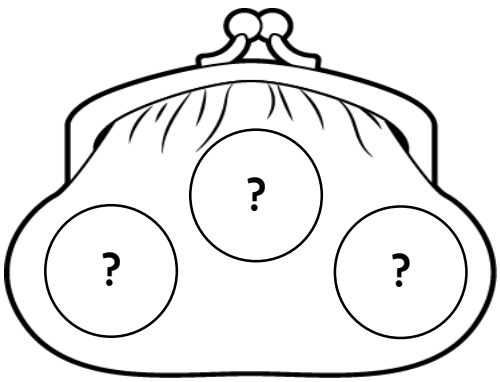
D PS

3a. Jack has £1.15 in his wallet. He has three coins.
What are the three coins Jack has?



D PS

3b. Sophie has £1.60 in her wallet. She has three coins.
What are the three coins Sophie has?



D PS

Pounds and Pence

4a. Liam and Laura both want to buy a football. A football costs £3.75.

Liam says, "I have two £1 coins, three 50p coins a 20p coin and a 5p coin."

Laura says, "I have three £1 coins, two 20p and five 5p coins."

Who can afford to buy a football?
Explain how you know.

E

R

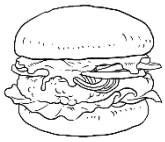
Pounds and Pence

4b. Usman and Belle both want to buy a burger. A burger costs £2.20.

Usman says, "I have a £1 coin, two 20p coins, a 50p coin and three 5p coins."

Belle says, "I have a £1 coin and six 20p coins."

Who can afford to buy a burger?
Explain how you know.



E

R

5a. Erin has 10p more than Zak. Match each child to their correct money purse. Write down how much they each have in pence and in decimals.

Erin

Zak

A

B

E

PS

5b. James has 15p less than Quinn. Match each child to their correct money purse. Write down how much they each have in pence and in decimals.

James

Quinn

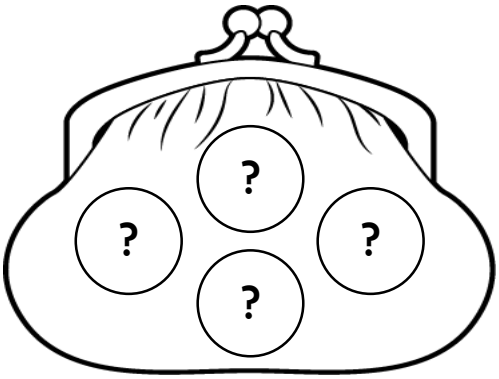
A

B

E

PS

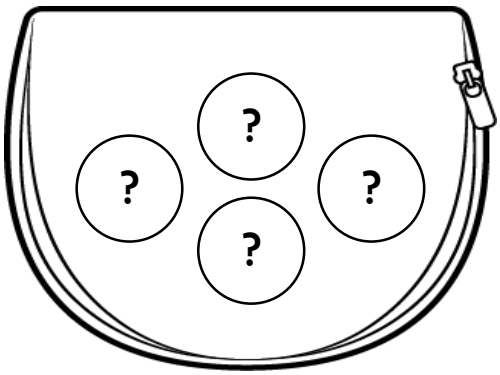
6a. Awais has £2.20 in his wallet. He has four coins.
Which coins could Awais have?



E

PS

6b. Amelia has £1.30 in her wallet. She has four coins.
Which coins could Amelia have?



E

PS

Pounds and Pence

7a. Kyle and Erin both want to buy a basketball. A basketball costs £4.50.

Kyle says, "I have three £1 coins, a 20p coin, two 50p coins and three 5p coins."

Erin says, "I have two £1 coins less and three 50p coins more than Kyle".

Who can afford to buy a basketball? Explain how you know.

GD

R

Pounds and Pence

7b. Jack and Tamina both want to buy a rubber duck. A rubber duck costs £2.80.

Tamina says, "I have a £1 coin, seven 20p coins and four 5p coins."

Jack says, "I have one more £1 coin and 4 less 20p coins than Tamina."

Who can afford to buy a rubber duck? Explain how you know.

GD

R

8a. How much does each child have? Write your answer in pence and in decimals.

Kevin

I have six two pound coins, one fifty pence coin and two ten pence coins.

I have a ten pound note, one two pound coin and three twenty pence coins.

Leah

GD

PS

8b. How much does each child have? Write your answer in pence and in decimals.

Nell

I have a five pound note, four one pound coins and eight twenty pence coins.

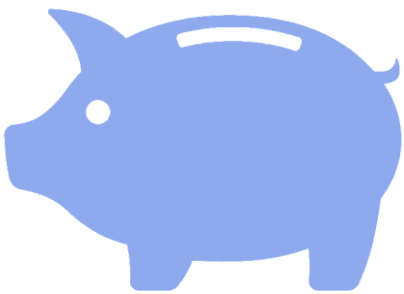
I have a ten pound note, a five pound note and thirteen 50 pence coins.

Lucas

GD

PS

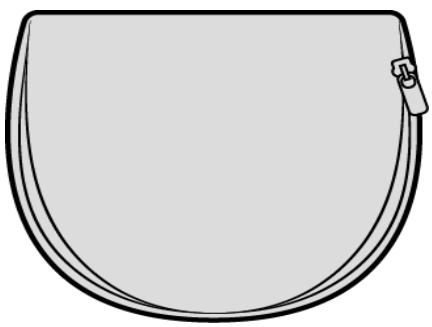
9a. Alfie has £11.60 in his piggy bank. He has one note and five coins.
What combinations could Alfie have?
Find two different ways.



GD

PS

9b. Ryan has £12.75 in his wallet. He has one note and six coins.
What combinations could Alfie have?
Find two different ways.



GD

PS

Reasoning and Problems Solving
Pounds and Pence

Developing

1a. Sam can afford it because he has £1.25. Alex only has £1.05.
2a. Jon – B; Annie – A
3a. £1, 10p, 5p

Expected

4a. Liam can afford it because he has £3.75. Laura only has £3.65.
5a. Erin – A, 250p or £2.50; Zak – B, 240p or £2.40.
6a. Any combination making £2.20, e.g. 2 x £1, 2 x 10p or £2, 2 x 5p, 10p

Greater Depth

7a. Neither can afford it. Kyle has £4.35 and Erin has £3.85.
8a. Kevin has 1,270p or £12.70; Leah has 1,260p or £12.60.
9a. Various possible answers, including: 1 x £10 note, 1 x £1, 2 x 20p and 2 x 10p; 1 x £5 note, 3 x £2, 1 x 50p, 1 x 10p.

Reasoning and Problems Solving
Pounds and Pence

Developing

1b. Jay can afford it because he has £1.15. Max only has £1.07.
2b. Sam – B; Manon – A
3b. £1, 50p, 10p

Expected

4b. Belle can afford it because she has £2.20. Usman only has £2.15.
5b. James – A, 310p or £3.10; Quinn – B, 325p or £3.25.
6b. Any combination making £1.30, e.g. 2 x 50p, 20p, 10p or £1, 20p, 2 x 5p

Greater Depth

7b. Jack can afford it because he has £2.80. Tamina only has £2.60.
8b. Nell has 1,060p or £10.60; Lucas has 2,150p or £21.50.
9b. Various possible answers, including: 1 x £10 note, 2 x £1, 1 x 50p, 2 x 10p and 1 x 5p; 1 x £10 note, 1 x £2, 3 x 20p, 1 x 10p and 1 x 5p.