

Reasoning and Problem Solving

Step 1: Count Money – Pence

National Curriculum Objectives:

Mathematics Year 2: (2M3a) [Recognise and use symbols for pounds \(£\) and pence \(p\); combine amounts to make a particular value](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Circle the coins to make groups of the given amount. Use of only one type of coin and values up to 50p.

Expected Circle the coins to make groups of the given amount. Use of two different coins and values up to 99p.

Greater Depth Circle the coins to make groups of the given amount. Use of a variety of different coins and values up to 99p.

Questions 2, 5 and 8 (Problem Solving)

Developing Create possible variations of coins to match a given total up to 20p using only one type of coin.

Expected Create possible variations of coins to match a given total up to 99p using only two types of coins.

Greater Depth Create possible variations of coins to match a given total up to 99p, using a variety of coins, but excluding specified coins.

Questions 3, 6 and 9 (Reasoning)

Developing Explain which is the odd one out when three groups are given. Includes coins and written totals up to 50p. Use of only one type of coin.

Expected Explain which is the odd one out when four groups are given. Includes coins and written totals up to 99p. Two different types of coins within a group.

Greater Depth Explain which is the odd one out when four groups are given. Includes coins and written totals up to 99p. Various types of coins within a group.

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Count Money – Pence

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1a. Circle groups of coins that make 20p.



PS

1b. Circle groups of coins that make 4p.



PS

2a. Tom says,



I have 1 type of coin.
I have 15p.

Which coins could Tom have?

What is the lowest number of coins he could have?



PS

2b. Kim says,



I have 1 type of coin.
I have 20p.

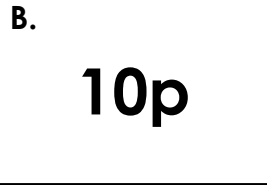
Which coins could Kim have?

What is the lowest number of coins she could have?



PS

3a. Which is the odd one out?

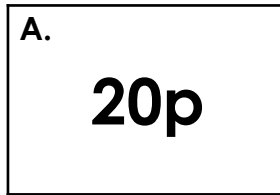


Explain your answer.



R

3b. Which is the odd one out?



Explain your answer.



R

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4a. Circle the coins below to make two groups of 30p.



PS

4b. Circle the coins below to make two groups of 60p.



PS

5a. Sally says,



I have 2 different types of coins. I have 40p.

Which coins could Sally have?

What is the lowest number of coins she could have?



PS

5b. Jan says,



I have 2 different types of coins. I have 90p.

Which coins could Jan have?

What is the lowest number of coins he could have?



PS

6a. Which is the odd one out?

A. 20p



Explain your answer.



R

6b. Which is the odd one out?



C. 50p



Explain your answer.



R

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7a. Circle the coins below to make two groups of 33p.



PS

7b. Circle the coins below to make two groups of 57p.



PS

8a. Fabian says,



I have 75p. I don't have any 5p coins.

Which coins could Fabian have?

What is the lowest number of coins he could have?



PS

8b. Luka says,



I have 90p. I don't have any 10p coins.

Which coins could Luka have?

What is the lowest number of coins he could have?



PS

9a. Which is the odd one out?



D. sixty pence

Explain your answer.



R

9b. Which is the odd one out?



B. 82p



Explain your answer.



R

Reasoning and Problem Solving Count Money – Pence

Developing

- 1a. Two groups of two 10p coins.
2a. Various answers, for example: 5p + 5p + 5p
Lowest number of coins: 3
3a. A as it shows 6p. B & C show 10p.

Expected

- 4a. Various answers, for example: 10p + 10p + 10p and 10p + 5p + 5p + 5p + 5p
5a. Various answers, for example: 10p + 10p + 5p + 5p + 5p + 5p
Lowest number of coins: 3
6a. D as it shows 15p. A, B & C show 20p.

Greater Depth

- 7a. Various answers, for example: 10p + 10p + 10p + 2p + 1p and 20p + 10p + 1p + 1p + 1p
8a. Various answers, for example: 50p + 10p + 10p + 2p + 2p + 1p
Lowest number of coins: 5
9a. A as it shows 65p. B, C & D all show 60p.

Reasoning and Problem Solving Count Money – Pence

Developing

- 1b. Two groups of two 2p coins.
2b. Various answers, for example: 10p + 10p
Lowest number of coins: 1
3b. C as it shows 15p. A & B show 20p.

Expected

- 4b. Various answers, for example: 20p + 20p + 10p + 10p and 20p + 10p + 10p + 10p + 10p
5b. Various answers, for example: 50p + 20p + 20p
Lowest number of coins: 3
6b. C as it shows 50p. A, B & D show 40p.

Greater Depth

- 7b. Various answers, for example: 20p + 20p + 10p + 5p + 2p and 50p + 5p + 1p + 1p
8b. Various answers, for example: 50p + 20p + 5p + 5p + 5p + 5p
Lowest number of coins: 3
9b. D as it shows 72p. A, B & C all show 82p.