Reasoning ad Problem Solving
Step 3: Counting in Coins

National Curriculum Objectives:

Mathematics Year 1: (1M3) Recognise and know the value of different denominations of coins and notes

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Determine whether a set of coins have been added together correctly. 1p and 10p coins only.
Expected Determine whether a set of coins have been added together correctly. 1p, 2p, 5p and 10p coins. Combinations of no more than two different coin values.
Greater Depth Determine whether a set of coins have been added together correctly. 1p, 2p, 5p and 10p coins. Combinations of no more than four different coin values.

Questions 2, 5 and 8 (Problem Solving)
Developing Identify which coins are needed to purchase an object, using 1p and 10p coins only.
Expected Identifying which coins are needed to purchase an object, using 1p, 2p, 5p and 10p coins. Combinations of no more than two different coin values.
Greater Depth Identifying which coins are needed to purchase an object, using 1p, 2p, 5p and 10p coins. Combinations of no more than four different coin values.

Questions 3, 6 and 9 (Reasoning)
Developing Explain whether a set of coins is sufficient to purchase an item, based on its price tag, using 1p and 10p coins only.
Expected Explain whether a set of coins is sufficient to purchase an item, based on its price tag, using 1p, 2p, 5p and 10p coins. Combinations of no more than two different coin values.
Greater Depth Explain whether a set of coins is sufficient to purchase an item, based on its price tag, using 1p, 2p, 5p and 10p coins. Combinations of no more than four different coin values.

More Year 1 Money resources

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Counting in Coins

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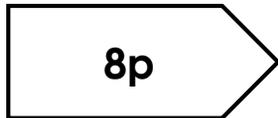**1a.** Clara thinks she has 4p in her purse. Is she correct? Prove it.
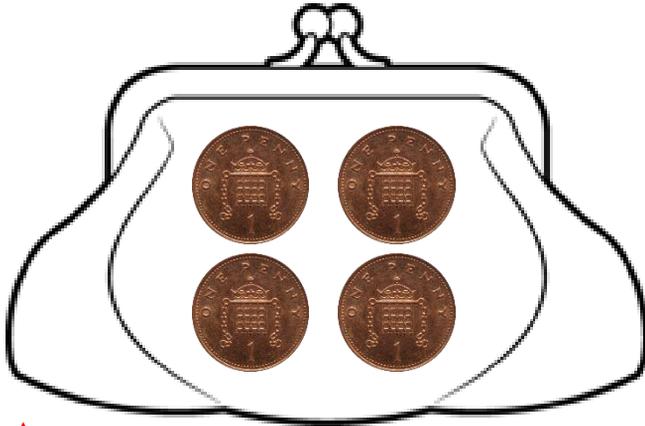
1b. Laura thinks she has 13p in her purse. Is she correct? Prove it.

2a. Circle the coins needed to buy the strawberry.

8p

2b. Circle the coins needed to buy the apple.

30p

3a. Faye wants to buy a tomato.

11p

Does she have enough money? Explain your answer.

3b. Theo wants to buy a pear.

40p

Does he have enough money? Explain your answer.

Reasoning and Problem Solving – Counting in Coins – Year 1 Developing

4a. Alex thinks she has 19p in her purse. Is she correct? Prove it.

4b. Olivia thinks she has 25p in her purse. Is she correct? Prove it.

E

R

E

R

5a. Circle the coins needed to buy the lemon.

20p

5b. Circle the coins needed to buy the lime.

22p

E

PS

E

PS

6a. Emma wants to buy a banana.

15p

Does she have enough money? Explain your answer.

6b. Sam wants to buy an orange.

35p

Does he have enough money? Explain your answer.

E

R

E

R

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Reasoning and Problem Solving – Counting in Coins – Year 1 Expected

7a. Max thinks he has 27p in his purse. Is he correct? Prove it.

7b. Mia thinks she has 30p in her purse. Is she correct? Prove it.

8a. Circle the coins needed to buy the peach.

23p

8b. Circle the coins needed to buy the kiwi.

22p

9a. Lisa wants to buy a pepper.

15p

Does she have enough money? Explain your answer.

9b. Tom wants to buy an potato.

32p

Does he have enough money? Explain your answer.

Reasoning and Problem Solving – Counting in Coins – Year 1 Greater Depth

Reasoning and Problem Solving
Counting in Coins

Developing
1a. Yes. 1p + 1p + 1p + 1p = 4p
2a. Eight 1p coins circled.
3a. No. There are nine 1p coins, which is 9p. She needs 2p more.

Expected
4a. No. 5p + 5p + 5p + 2p = 17p
5a. One 10p and two 5p coins circled.
6a. No. 2p + 2p + 2p + 1p + 1p + 1p + 1p = 10p. She needs 5p more.

Greater Depth
7a. Yes. 10p + 5p + 5p + 5p + 2p = 27p
8a. One 10p, two 5p, one 2p and one 1p coin circled.
9a. Yes. 5p + 5p + 2p + 2p + 2p + 1p = 17p. She has 2p more.

Reasoning and Problem Solving
Counting in Coins

Developing
1b. No. 10p + 10p + 10p = 30p
2b. Three 10p coins circled.
3b. Yes. 10p + 10p + 10p +10p = 40p

Expected
4b. Yes. 10p + 10p + 5p = 25p
5b. Two 10p coins and one 2p coin circled.
6b. Yes. 10p + 10p + 5p + 5p + 5p = 35p

Greater Depth
7b. No. 10p + 10p + 5p + 5p + 1p = 31p
8b. Two 10p coins and one 2p coin circled or one 10p, two 5p coins and one 2p coin circled.
9b. Yes. 10p + 10p + 5p + 5p + 2p = 32p

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Reasoning and Problem Solving – Counting in Coins ANSWERS