Reasoning and Problem Solving
Step 4: Select Money

National Curriculum Objectives:

Mathematics Year 2: (2M3a) Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Mathematics Year 2: (2M3b) Find different combinations of coins that equal the same amount of money
Mathematics Year 2: (2M9) Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Complete a part-whole model using coins. Provide 2 answers. Includes coins only with an amount specified.
Expected Complete a part-whole model using coins and notes. Provide 2 answers. Includes notes and coins with an amount specified.
Greater Depth Complete a part-whole model using coins and notes. Provide 2 answers. Includes notes and coins within set parameters.

Questions 2, 5 and 8 (Problem Solving)
Developing Select the different possible combinations of money that fit the given criteria. Includes coins only.
Expected Select the different possible combinations of money that fit the given criteria. Includes coins and notes.
Greater Depth Select the different possible combinations of money that fit the given criteria. Includes coins and notes.

Questions 3, 6 and 9 (Reasoning)
Developing Identify and explain whether the amount of money provided is enough. Includes coins only.
Expected Identify and explain whether the amount of money provided is enough. Includes coins and notes.
Greater Depth Identify and explain whether the amount of money provided is enough. Includes a mixture of images, words and numbers for notes and coins.

More Year 2 Money resources.

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

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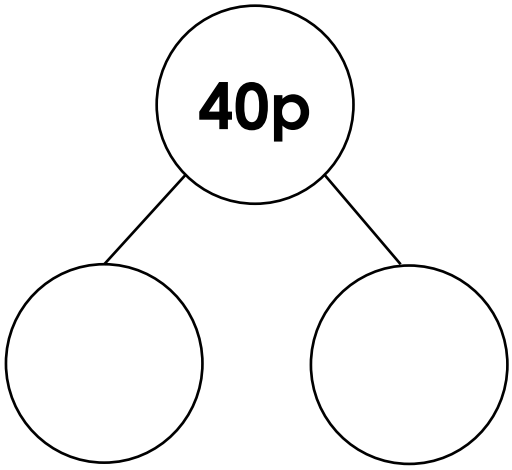
Select Money

1a. Using 4 coins, complete the part - whole model. Give 2 possible answers.



D PS

2a. Bobby and Debbie both have 70p.

Bobby

I have 4 coins.

I also have 4 coins.

Debbie

What combination of coins could Bobby and Debbie have?

D PS

3a. Beth and Harry want to buy a packet of pasta.

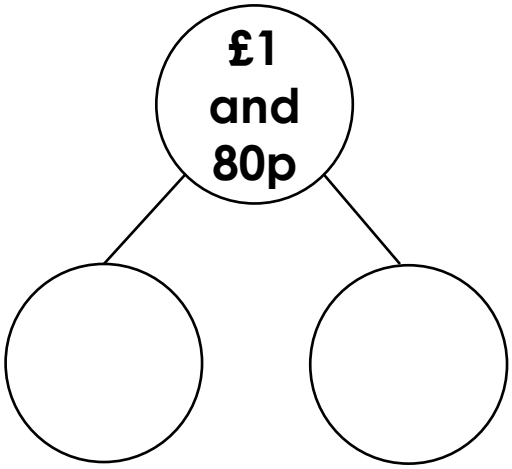
Beth thinks they have enough money.
Harry thinks they need more money.

Who is correct? Explain how you know.

D R

Select Money

1b. Using 5 coins, complete the part-whole model. Give 2 possible answers.



D PS

2b. Jenny and Chris both have 90p.

Jenny

I have 5 coins.

I also have 5 coins.

Chris

What combination of coins could Jenny and Chris have?

D PS

3b. Lauren and Adam want to buy a tin of beans.

Lauren thinks they have enough money.
Adam thinks they need more money.

Who is correct? Explain how you know.

D R

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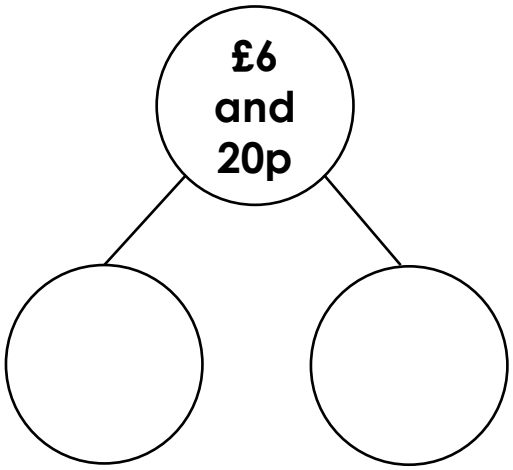
Select Money

4a. Using 1 note and 3 coins, complete the part-whole model. Give 2 possible answers.



E PS

5a. Rebecca and Michael both have £5 and 40p.

Rebecca

I have three coins and a note.

I have five coins.

Michael

What combinations could Rebecca and Michael have?

E PS

6a. Alfie and Ella want to buy a packet of pencils.

£5 and 59p

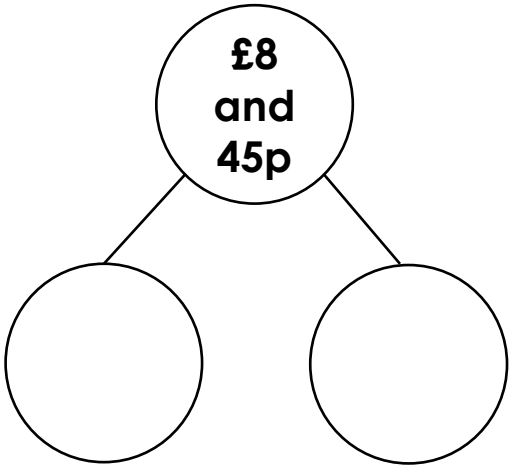
Alfie thinks they have enough money.
Ella thinks they need more money.

Who is correct? Explain how you know.

E R

Select Money

4b. Using 1 note and 5 coins, complete the part-whole model. Give 2 possible answers.



E PS

5b. Angela and Stephen both have £5 and 3p.

Angela

I have 6 coins.

I have one note and two coins.

Stephen

What combinations could Angela and Stephen have?

E PS

6b. Harrison and Lily want to buy a bottle of ketchup.

£2 and 17p

Lily thinks they have enough money.
Harrison thinks they need more money.

Who is correct? Explain how you know.

E R

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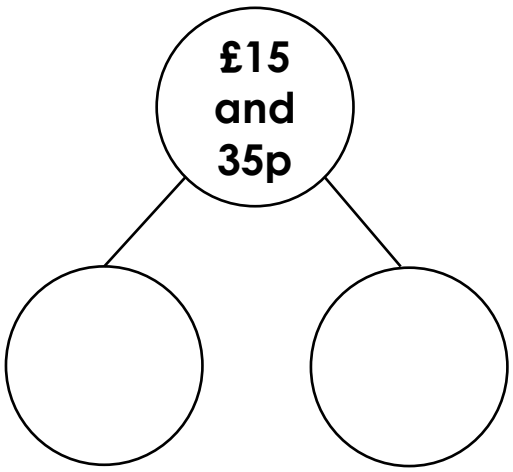
Select Money

7a. Using notes and coins, complete the part-whole model. You can use up to two £5 notes. Give 2 possible answers.



GD PS

8a. Henry has 4 notes and 4 coins.

Henry

Two of my notes are £5.

My total is no more than £40 and 40p.

What is the most amount of money that Henry could have? What is the least amount of money he could have? Prove it.

GD PS

9a. Lola and Sam want to buy some books.

£7 and 55p

3 twenty-pence coins

1 five-pound note

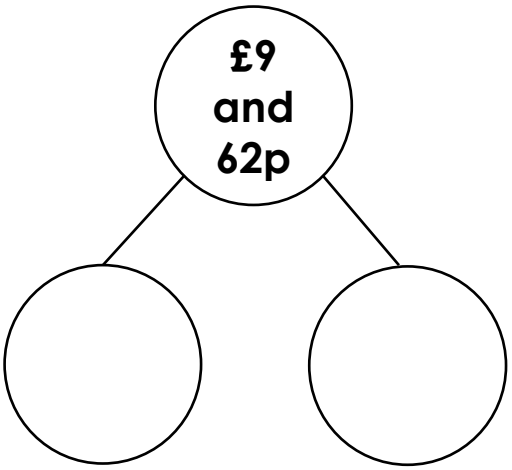
Sam thinks they have enough money. Lola thinks they need more money.

Who is correct? Explain how you know.

GD R

Select Money

7b. Using notes and coins, complete the part-whole model. You cannot use the 10p coin. Give 2 possible answers.



GD PS

8b. Amber has 3 notes and 5 coins.

Amber

I have one £10, I only have one £2 and I have no copper coins.

My total is less than £50.

What is the most amount of money that Amber could have? What is the least amount of money she could have? Prove it.

GD PS

9b. Toby and Mia want to buy a paddling pool.

£11 and 97p

5 two-pound coins

5 ten-pence coins

Mia thinks they have enough money. Toby thinks they need more money.

Who is correct? Explain how you know.

GD R

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Reasoning and Problem Solving
Select Money

Developing

1a. 20p + 20p; 10p + 10p + 10p + 10p; 4 x 10p coins

2a. 50p + 10p + 5p + 5p; 20p + 20p + 20p + 10p

3a. Harry is correct. They only have 50p + 50p + 20p + 20p + 5p = £1 and 45p. They need £1 and 2p more.

Expected

4a. £5 + £1 + 10p + 10p; £5 + 50p + 50p + 20p

5a. Rebecca has £5 + 20p + 10p + 10p. Michael has £2 + £2 + £1 + 20p + 20p.

6a. Alfie is correct because £5 + £1 + 50p + 10p + 5p = £6 and 65p altogether. They can use £5 + 50p + 10p.

Greater Depth

7a. Various answers, for example: £5 + £5 + £2 + £2 + £1 + 20p + 10p + 5p; £5 + £5 + £2 + £1 + £1 + £1 + 20p + 5p + 5p + 5p; £5 + £5 + £2 + £1 + £1 + 50p + 50p + 20p + 10p + 5p; £5 + £5 + £2 + £2 + £1 + 10p + 10p + 10p + 5p; £5 + £5 + £2 + £2 + 50p + 50p + 10p + 10p + 10p + 5p

8a. The most amount of money is £40 and 40p = £5 + £5 + £10 + £20 + 20p + 10p + 10p. The least amount of money is £20 and 4p = £5 + £5 + £5 + £5 + 1p + 1p + 1p + 1p.

9a. Sam is correct because they have '1 lot of £5' + £2 + '3 lots of 20p' + 10p = £7 and 70p. They can use £5 + £2 + 20p + 20p + 20p.

Reasoning and Problem Solving
Select Money

Developing

1b. 50p + 50p + 50p + 20p + 10p; £1 + 20p + 20p + 20p + 20p; £1+ 50p + 10p + 10p + 10p

2b. 50p + 10p + 10p + 10p + 10p; 50p + 20p + 10p + 5p + 5p; 20p + 20p + 20p + 20p + 10p

3b. Lauren is correct because they have £1+ 20p + 10p + 10p = £1 and 40p altogether. They can use £1 + 20p + 10p.

Expected

4b. £5 + £2 + £1 + 20p + 10p +10p + 5p; £5 + £1 + £1 + £1 + 20p + 20p + 5p

5b. Angela could have £2 + £2 + £1 + 1p + 1p + 1p; £2 + £1 + £1 + £1 + 2p + 1p or £2 + £2 + 50p + 50p + 1p +2p.
Stephen has £5 + 2p + 1p.

6b. Lily is correct because £1 + £1 + 10p + 2p + 2p + 2p + 2p = £2 and 18p which is more than £2 and 17p.

Greater Depth

7b. Various answers, for example: £5 + £2 + £2 + 20p + 20p + 20p + 2p; £5 + £2 + £1 + £1 + 50p + 5p + 5p + 2p; £5 + £2 + £2 + 20p + 20p + 20p + 1p + 1p; £5 + £1 + £1 + £1 + £1 + 20p + 20p + 20p + 2p; £5 + £2 + 50p + 50p + 50p + 50p + 20p + 20p + 20p + 2p

8b. The most amount of money is £46 = £10 + £10 + £20 + £2 + £1 + £1 + £1 + £1. The least amount of money is £22 and 20p = £10 + £5 + £5 + £2 + 5p + 5p + 5p + 5p.

9b. Toby is correct because they only have '5 lots of £2' + '5 lots of 10p' + 20p + 20p + 5p + 2p = £10 and 97p. They need £1 more.

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