

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.

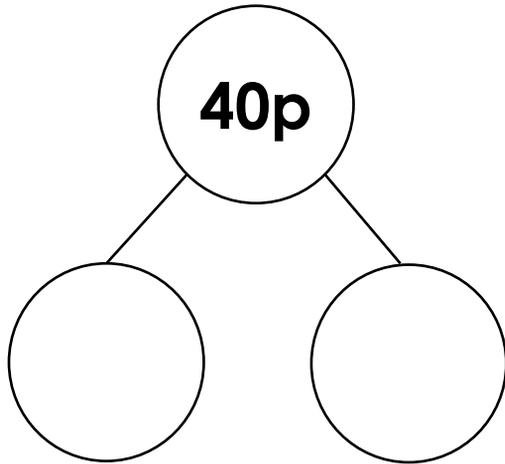
Greater Depth Identify and explain whether the amount of money provided is enough. Includes a mixture of images, words and numbers for notes and coins.

More [Year 2 Money](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Select Money

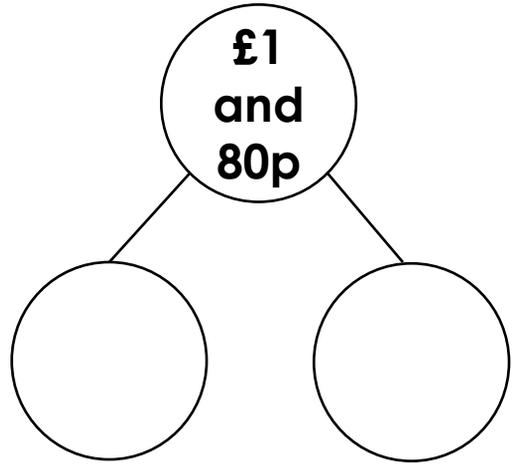
1a. Using 4 coins, complete the part-whole model. Give 2 possible answers.



PS

Select Money

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



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?



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?



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.



R

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



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

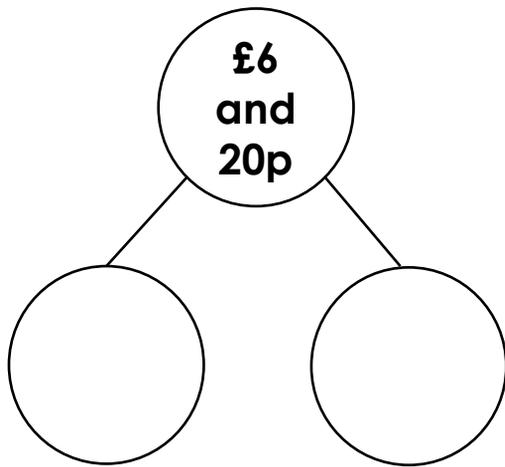
Who is correct? Explain how you know.



R

Select Money

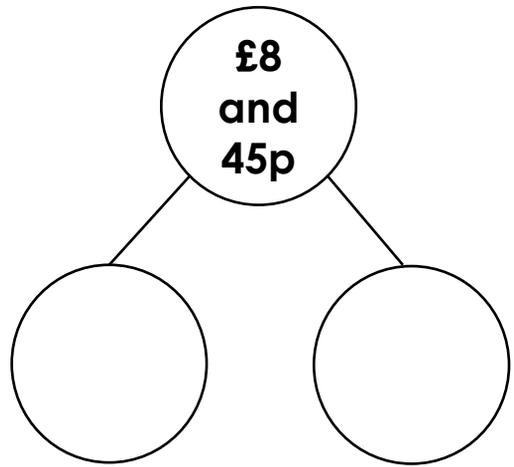
4a. Using 1 note and 3 coins, complete the part-whole model. Give 2 possible answers.



PS

Select Money

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



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?



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?



PS

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



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

Who is correct? Explain how you know.



R

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



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

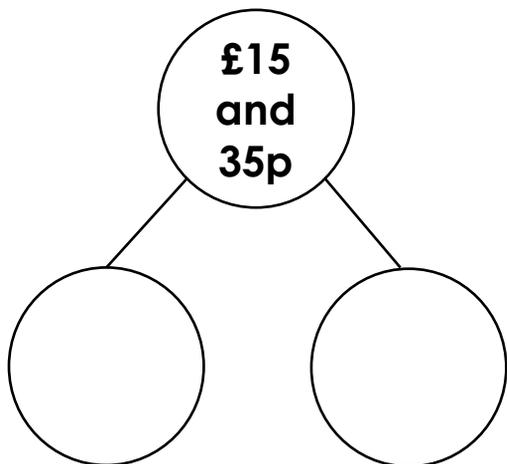
Who is correct? Explain how you know.



R

Select Money

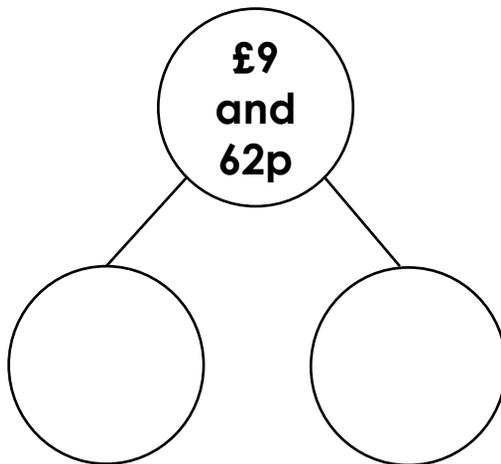
7a. Using notes and coins, complete the part-whole model. You can use up to two £5 notes. Give 2 possible answers.



PS

Select Money

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



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.



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.



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.



R

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.



R

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: $£5 + £5 + £2 + £2 + £1 + 20p + 10p + 5p$; $£5 + £5 + £2 + £1 + £1 + £1 + 20p + 5p + 5p + 5p$; $£5 + £5 + £2 + £1 + £1 + 50p + 50p + 20p + 10p + 5p$; $£5 + £5 + £2 + £2 + £1 + 10p + 10p + 5p$; $£5 + £5 + £2 + £2 + 50p + 50p + 10p + 10p + 5p$
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: $£5 + £2 + £2 + 20p + 20p + 20p + 2p$; $£5 + £2 + £1 + £1 + 50p + 5p + 5p + 2p$; $£5 + £2 + £2 + 20p + 20p + 20p + 1p + 1p$; $£5 + £1 + £1 + £1 + £1 + 20p + 20p + 20p + 2p$; $£5 + £2 + 50p + 50p + 50p + 20p + 20p + 20p + 2p$
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.

A Monster Surprise

Beneath the leafy rooftop of the woods in Little Nook
Was a very hungry rabbit who was searching by the brook.



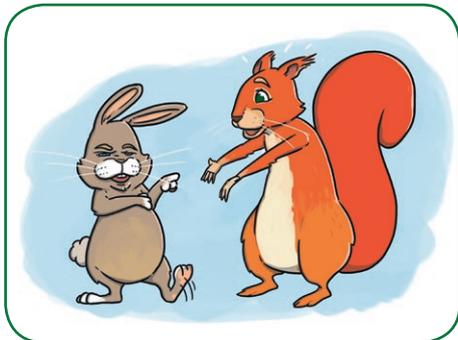
“My flowers have been stolen – almost every single bunch!”

Rabbit panicked, feeling sure that there was not enough for lunch.

He saw a clump of fur between some sticks upon the ground,
And it gave him an idea of where the culprit might be found.



So, Rabbit marched to Squirrel’s house to find his precious food,
And to tell his friend that taking it was really rather rude.



“Excuse me,” shouted Rabbit, now with Squirrel in his sight,

“I was really looking forward to my marigold delight.

I know you took my flowers, please return them right away.”
But it wasn’t only Rabbit who was missing food that day.

“My acorns have been stolen!” Squirrel shouted with a cry,
“And the villain left a bite mark in my tree as they went by.”

The friends knew just one creature who
would nibble on a tree,
And it gave them an idea of where the
culprit now might be.



So, on they marched to Beaver's house to find their precious food,
And to tell their friend that taking it was really rather rude.



"Excuse me," shouted Squirrel, now
with Beaver up ahead,
"I was really looking forward to my
toast with acorn spread.

I know you took my acorns, would you kindly give them back?"
But it wasn't only Squirrel who was cross about her snack.

"My branches have been stolen!" snuffled Beaver, full of grief.
"And I'm sure I saw a pointy tusk belonging to the thief."

The friends knew just one creature
with a tusk of any sort,
And it gave them an idea of where the
culprit might be caught.



So, on they marched to Boar's house, off to find their precious food,
And to tell their friend that taking it was really rather rude.

“Excuse me,” shouted Beaver, now
that Boar was in her view,
“I was really looking forward to
my branch and bramble stew.



I know you took my branches and I'd like them back, unchewed!”
But it wasn't only Beaver who was longing for her food.

“My berries have been stolen!” snorted Boar, wide-eyed with shock.
“And the robber left some footprints leading right across that rock.

I don't know any creature who has footprints of that kind,
So I think that we should follow them to see what we can find.”



The friends climbed up the rock,
then clambered down the other side,
As they trekked to find their food with
just the footprints as their guide.

Along a narrow path that formed a
line between the trees,
Through the clump of thorny bushes
that left scratches on their knees...



Across some jagged rocks displaying shadows on the floor,
Till they came across a cave that had a boulder for a door.

The boulder started moving and the creatures stood in fright,
As a silhouette inside began to shuffle into sight.

“A monster!” Rabbit shouted as the friends all turned to flee.
In the panic, Rabbit tripped, colliding head first with a tree.



The monster’s hand loomed down and as it picked him up, he froze.
What a scary beast it was with hairy ears and crusty toes!



“Don’t eat me, please!” begged Rabbit, looking straight into its eyes.

“I won’t eat you!” laughed the monster, as it chuckled with surprise.

“Oh, thank you!” answered Rabbit, as he brushed the dirt away.

“Don’t be frightened,” said the monster. “I’m just checking you’re OK!”

The monster mumbled shyly as it bent down on one knee,
“I wondered if you all would like to join me for some tea.”

The monster clicked its fingers and the glow-worms shined their
lights
On the most amazing party full of wonderful delights.



“Our favourite foods!” said Rabbit, now the monster’s plan was clear,
And the creatures all said sorry for reacting with such fear.

“Please, join me,” said the monster, as it headed for the seats.
“You can help yourself to cups of tea and lots of yummy treats.”

When Rabbit’s little tummy brimmed with marigold delight,
And when all the toast had gone with no more acorn spread
in sight,

When Boar was full of berries, and the
stew was at an end,
They hugged and thanked the monster,
who was now their brand-new friend.



Questions

1. Where do the characters live? Tick one.

- on a farm
- in a zoo
- in the woods

2. Who is the first animal we meet in the story? Tick one.

- Beaver
- Rabbit
- Boar

3. What do all the animals notice is missing? Tick one.

- their food
- their homes
- their friends

4. Who had been taking their things? Tick one.

- a mouse
- a man
- a monster

5. How did everyone feel at the end of the story? Tick one.

- sad
- happy
- angry

Answers

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Questions

1. What does Rabbit think has been stolen? Tick one.

- his carrots
 his lettuce
 his flowers

2. Which character is looking for their acorns? Tick one.

- Squirrel
 Beaver
 Boar

3. Draw a line to match up the words that rhyme.

lunch

food

snack

back

bunch

rude

4. Why were the animals scared of the monster?

5. Complete this sentence.

They hugged and thanked the monster, who was now
their brand-new _____.

teacher

friend

pet

Answers

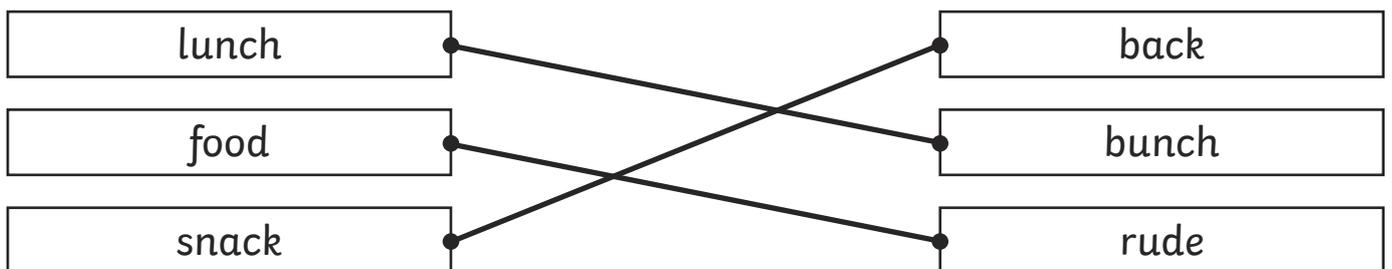
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- his carrots
 his lettuce
 his flowers

2. Which character is looking for their acorns? Tick one.

- Squirrel**
 Beaver
 Boar

3. Draw a line to match up the words that rhyme.



4. Why were the animals scared of the monster?

Accept answers that make sense, such as: because the monster was a stranger; the monster was much bigger than them; they thought the monster might hurt/eat them.

5. Complete this sentence.

They hugged and thanked the monster, who was now their brand-new **friend**.

teacher

friend

pet

Questions

1. What did the animals think had happened to their food? Tick one.

- They thought it had been stolen.
- They thought it had been cooked.
- They thought it had been poisoned.

2. What do you think the word 'culprit' means?

3. List three pairs of rhyming words in the story.

1. _____
2. _____
3. _____

4. Put these events from the story in order by numbering them 1 to 4.
The first one has been done for you.

Beaver is looking for her branches.	
Squirrel is looking for her acorns.	
Rabbit is looking for his flowers.	1
Boar is looking for his berries.	

5. How do you think the animals felt when they first saw the monster?

6. Why do you think the monster wanted to have a tea party with the animals?

Answers

1. What did the animals think had happened to their food? Tick one.

- They thought it had been stolen.**
 They thought it had been cooked.
 They thought it had been poisoned.

2. What do you think the word 'culprit' means?

Accept answers that refer to someone having done something wrong.

3. List three pairs of rhyming words in the story.

Accept any three from the following: Nook/brook; bunch/lunch; ground/found; food/rude; sight/delight; away/day; cry/by; tree/be; ahead/spread; back/snack; grief/thief; sort/caught; view/stew; unchewed/food; shock/rock; kind/find; side/guide; trees/knees; floor/door; fright/sight; flee/tree; froze/toes; eyes/surprise; away/OK; knee/tea; lights/delights; clear/fear; seats/treats; delight/sight; end/friend.

4. Put these events from the story in order by numbering them 1 to 4. The first one has been done for you.

Beaver is looking for her branches.	3
Squirrel is looking for her acorns.	2
Rabbit is looking for his flowers.	1
Boar is looking for his berries.	4

5. How do you think the animals felt when they first saw the monster?

Accept answers that refer to the animals feeling scared and/or thinking the monster might hurt or eat them.

6. Why do you think the monster wanted to have a tea party with the animals?

Accept answers that refer to the monster being lonely and wanting to make friends.