

Reasoning and Problem Solving

Step 8: Find the Difference

National Curriculum Objectives:

Mathematics Year 2: (2C4) [Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Prove the cost of an object by finding the difference between two amounts, using whole pounds or multiples of 10 pence.

Expected Prove the cost of an object by finding the difference between two amounts, using whole pounds and any value of pence.

Greater Depth Prove the cost of an object by finding the difference between two amounts, using whole pounds and any value of pence, where the amounts are given as descriptions of multiple coins.

Questions 2, 5 and 8 (Reasoning)

Developing Explain whether a statement is correct, using whole pounds or multiples of 10 pence. All questions include visual aids.

Expected Explain whether a statement is correct, using whole pounds and any value of pence. Some questions include visual aids.

Greater Depth Explain whether a statement is correct, using whole pounds and any value of pence. Some visual aids are removed.

Questions 3, 6 and 9 (Problem Solving)

Developing Identify which coins make up a given amount, using whole pounds or multiples of 10 pence. All questions include visual aids.

Expected Identify which coins make up a given amount, using whole pounds and any value of pence. Some questions include visual aids.

Greater Depth Identify which coins make up a given amount, using whole pounds and any value of pence. Some visual aids are removed.

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Find the Difference

1a. Hannah is shopping.

A flower costs £2.



The difference between the price of a flower and a plant pot is £1.

How much is a plant pot? Prove it.

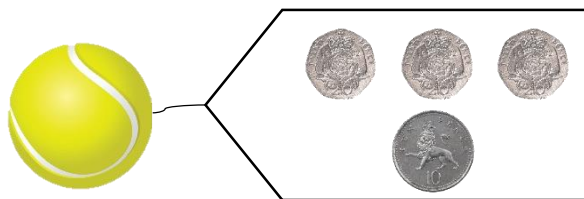


R

Find the Difference

1b. Noah is shopping.

A tennis ball costs 70p.



The difference between the price of a tennis ball and a golf ball is 20p.

How much is the golf ball? Prove it.



R

2a. Ray is saving up to buy a windmill. He thinks he needs another £1. Is he correct? Prove it.



R

2b. Lucy is saving up to buy some sweets. She thinks she needs another 10p. Is she correct? Prove it.



R

3a. Mia has £4. Some money has fallen out of her pocket.



These are the coins she has left. What coin(s) could she have dropped?



PS

3b. Ash has 60p. Some money has fallen out of his pocket.



These are the coins he has left. What coin(s) could he have dropped?



PS

Find the Difference

4a. Ian is shopping.

A baseball costs £3 and 80p.



The difference between the price of a baseball and a football is £3 and 10p.

How much is a football? Prove it.



R

Find the Difference

4b. Ali is shopping.

A pineapple costs £3 and 25p.



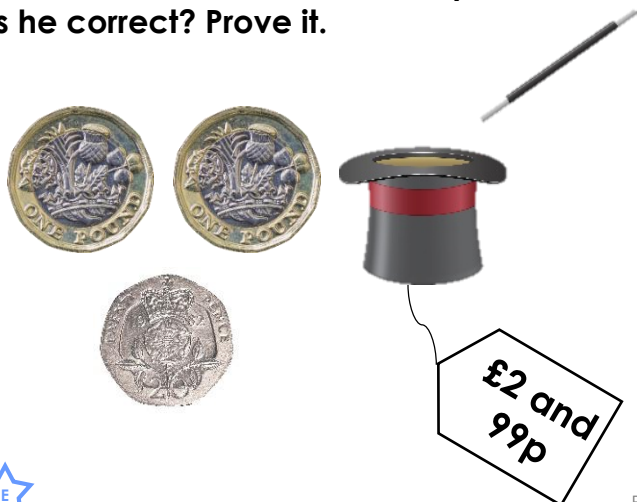
The difference between the price of a pineapple and a melon is £1 and 20p.

How much is the melon? Prove it.



R

5a. Joe is saving up to buy a magic set. He thinks he needs another 79p. Is he correct? Prove it.



R

5b. Leo is saving up to buy a football. He thinks he needs another £1. Is he correct? Prove it.



R

6a. Lee has £5 and 31p. Some money has fallen out of his pocket.



These are the coins he has left. What coin(s) could he have dropped?

Give two possibilities.



PS

6b. Lola has £12 and 21p. Some money has fallen out of her pocket.



These are the coins she has left. What note(s) could she have dropped?

Give two possibilities.



PS

Find the Difference

7a. Nia is shopping.

A hat costs £2 and 42p.



£2 and
42p

The difference between the price of a hat and a scarf is £1 and two 20p pieces.

How much is a scarf?



R

Find the Difference

7b. James is shopping.

A truck costs £4 and 57p.



£4 and
57p

The difference between the price of the truck and a go kart is £3 and four 5p pieces.

How much is the go kart? Prove it.



R

8a. Mick is saving up to buy a box of toys. He thinks he needs another £5 and 8p. Is he correct? Prove it.



£1



£8 and
58p



R

8b. Anna is saving up to buy a doll. She thinks she has £1 too much. Is she correct? Prove it.



Two 20p coins



£4 and
50p



R

9a. Chris has £9 and 22p. Some money has fallen out of his pocket.



Two 1p coins

These are the coins he has left. What money could he have dropped?

Give two possibilities.



PS

9b. Aleena has £11 and 52p. Some money has fallen out of her pocket.



£1 1p

Two 10p coins

These are the coins she has left. What coin(s) could she have dropped?

Give two possibilities.



PS

Reasoning and Problem Solving

Find the Difference

Developing

- 1a. The plant pot could be £1 ($£2 - £1$) or £3 ($£2 + £1$).
- 2a. Ray is correct. The windmill is £3 but he only has £2. $£2 + £1 = £3$.
- 3a. £1 (or coins totalling £1).

Expected

- 4a. The football could be £6 and 90p ($£3$ and $80p + £3$ and $10p$) or 70p ($£3$ and $80p - £3$ and $10p$).
- 5a. Joe is correct. The magic set costs £2 and 99p but Joe only has £2 and 20p.
- 6a. Various answers, for example: £2 and £1; $3 \times £1$; $6 \times 50p$. (£3)

Greater Depth

- 7a. The scarf could be £3 and 82p ($£2$ and $42p + £1$ and $40p$) or £1 and 2p ($£2$ and $42p - £1$ and $40p$).
- 8a. Mick is incorrect. The box of toys is £8 and 58p but Mick only has £6 and 20p. He needs £2 and 38p.
- 9a. Various answers, for example: £2 and 20p, $2 \times £1$ and 20p, $4 \times 50p$ and 20p. (£2.20)

Reasoning and Problem Solving

Find the Difference

Developing

- 1b. The tennis ball could be 50p ($70p - 20p$) or 90p ($70p + 20p$).
- 2b. Lucy is incorrect. The sweets are 50p but she only has 30p. She needs 20p. $30p + 20p = 50p$.
- 3b. 10p (or coins totalling 10p).

Expected

- 4b. The melon could be £4 and 45p ($£3$ and $25p + £1$ and $20p$) or £2 and 5p ($£3$ and $25p - £1$ and $20p$).
- 5b. Leo is incorrect. The football is £7 and 15p but Leo only has £5. He needs £2 and 15p.
- 6b. £10 or $2 \times £5$. (£10)

Greater Depth

- 7b. The go kart could be £7 and 77p or £1 and 37p.
- 8b. Anna is correct. The doll is £4 and 50p but Anna has £5 and 50p. She has £1 too much.
- 9b. Various answers, for example: 20p and 10p and 1p; $3 \times 10p$ and 1p. (31p)