Reasoning and Problem Solving Step 1: Pounds and Pence

Teaching note: We recommend providing children with money to support this step.

National Curriculum Objectives:

Mathematics Year 3: (3M9a) Add and subtract amounts of money to give change, using both £ and p in practical contexts

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Identify three different combinations of coins needed to pay for two separate items using up to three coins. Where scaffolding for the answer is provided.

Expected Identify three different combinations of notes and coins needed to pay for two separate items.

Greater Depth Identify five different combinations of notes and coins needed to pay for two separate items. No pounds or pence given.

Questions 2, 5 and 8 (Problem Solving)

Developing Draw no more than three notes and coins to represent the given amount. Expected Draw the notes and coins to represent the given amount.

Greater Depth Draw notes and coins to represent the given amount and calculate the new total when some coins are missing.

Questions 3, 6 and 9 (Reasoning)

Developing Identify who has the correct amount in pounds and pence and explain why. Up to three notes and coins given.

Expected Identify who has the correct amount in pounds and pence and explain why. Greater Depth Identify who has listed the correct amount in notes and coins and explain why.

More <u>Year 3 Money</u> resources.

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

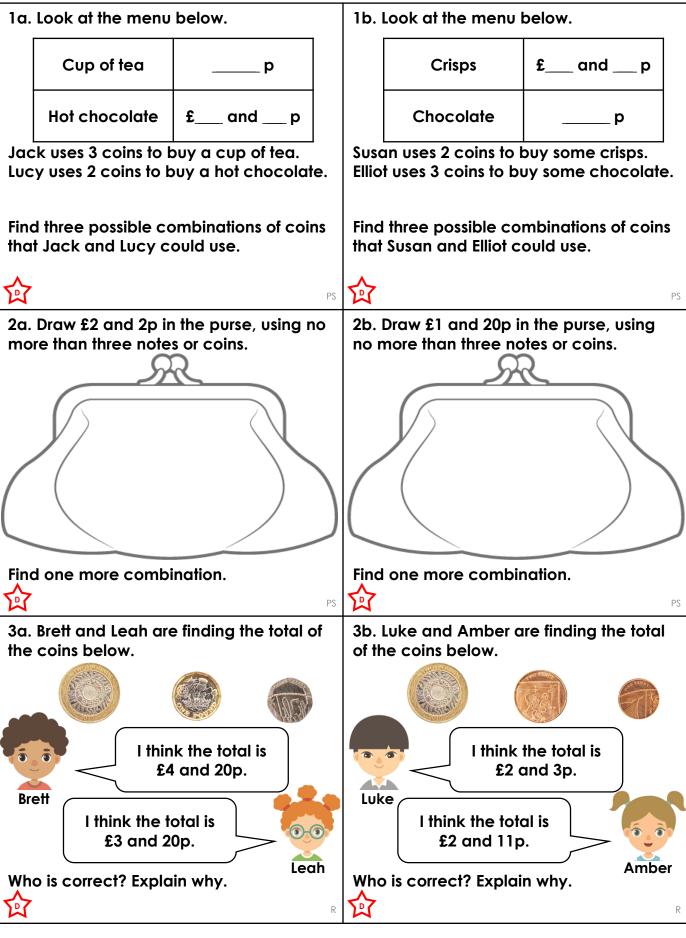


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Reasoning and Problem Solving – Pounds and Pence – Teaching Information

Pounds and Pence

Pounds and Pence



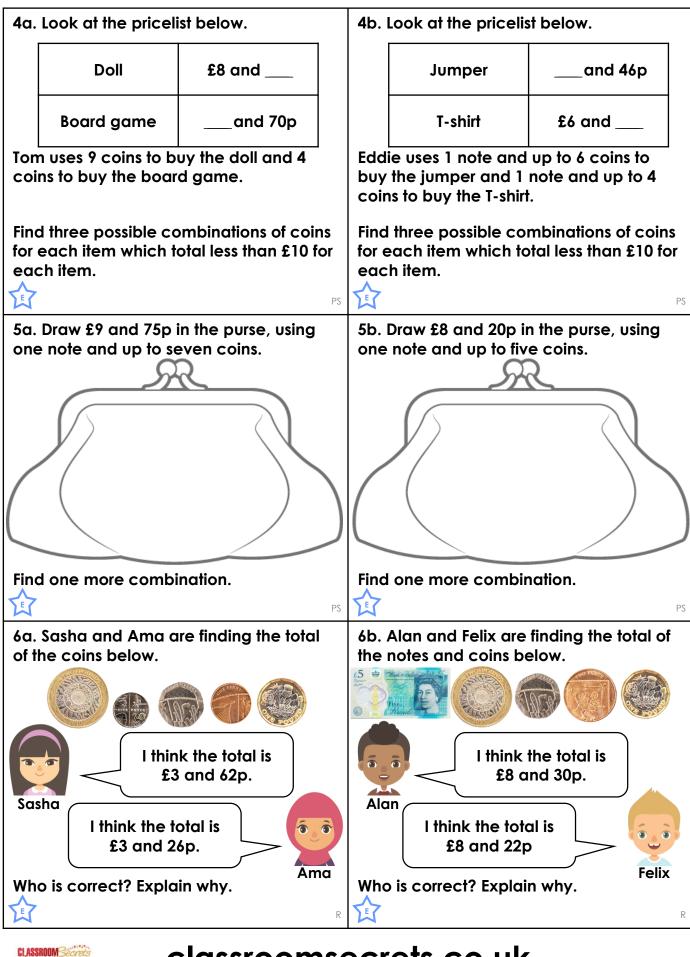
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Reasoning and Problem Solving – Pounds and Pence – Year 3 Developing

Pounds and Pence

Pounds and Pence



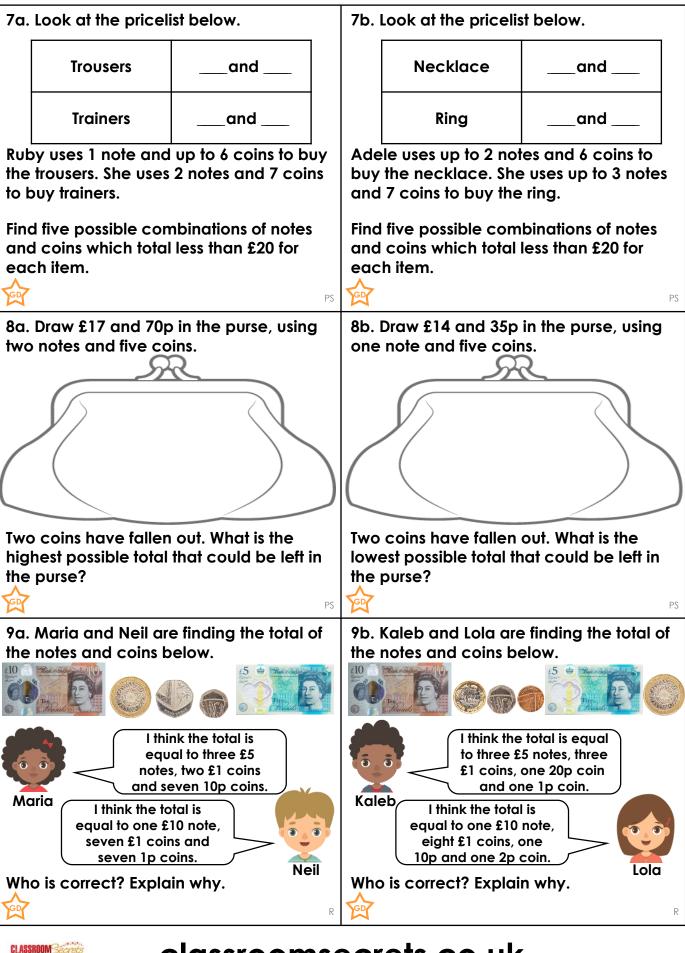
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Reasoning and Problem Solving – Pounds and Pence – Year 3 Expected

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Reasoning and Problem Solving – Pounds and Pence – Year 3 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Pounds and Pence</u>

Developing

1a. Various answers, for example: Jack could use one 50p coin, one 20p coin and one 5p coin (75p); Lucy could use one £1 coin and one 10p coin (£1 and 10p). Three different combinations given for each.
2a. Various answers, for example: One £2 coin and two 1p coins or two £1 coins and one 2p coin.

3a. Leah is correct, because £2 + £1 + 20p = £3 and 20p.

Expected

4a. Various answers, for example: Tom could use four £2 coins, one 50p coin, one 20p coin and three 2p coins (£8 and 76p) to buy the doll; He could use two £2 coins, one 50p coins and one 20p coin (£4 and 70p) to buy the board game. Three different combinations given for each. 5a. Various answers, for example: One £5 note, two £2 coins, one 50p coin, one 20p coin and one 5p coin; or one £5 note, one £2 coin, two £1 coins, one 50p coin, two 10p coins and one 5p coin.

6a. Ama is correct because £2 + £1 + 20p + 5p + 1p = £3 and 26p.

Greater Depth

7a. Various answers, for example: Ruby could use one £5 note, four £2 coins and one 50p coin and one 20p coin (£13 and 70p) to buy the trousers; She could use two £5 notes, one £2 coin, one £1 coin, two 50p coins, one 20p coin, one 10p coin and one 2p coin (£14 and 32p) to buy the trainers. Five different combinations given for each.
8a. Various answers, for example: One £10 note, one £5 note, one £2 coins, three 20p coins and one 10p coin. If two of these coins fall out the highest possible total left would be £17 and 40p.

9a. Maria is correct because £10 + £5 + £2 + 50p + 20p = £17 and 70p.

<u>Reasoning and Problem Solving</u> <u>Pounds and Pence</u>

Developing

1b. Various answers, for example: Susan could use one £1 coin and one 5p coin (£1 and 5p); Elliot could use one 50p coin, one 5p coin and one 2p coin (57p). Three different combinations given for each.
2b. Various answers, for example: One £1 coin and two 10p coins; or two 50p coins and one 20p coin.

3b. Luke is correct, because 2p + 1p + £2 = £2 and 3p

Expected

4b. Various answers, for example: Eddie could use one £5 note, two 50p coins, two 20p coins, one 5p coin and one 1p coin (£6 and 46p) to buy the jumper. He could use one £5 note, one £1 coin, one 50p coin, one 20p coin and one 5p coin (£6 and 75p) to buy the T-shirt. Three different combinations given for each.
5b. Various answers, for example: One £5 note, one £2 coin, one £1 coin, one 10p coin and two 5p coins; or one £5 note, three £1 coins and one 20p coin.
6b. Felix is correct because £5 + £2 + £1 + 20p + 2p = £8 and 22p.

Greater Depth

7b. Various answers, for example: Adele could use one £10 note, one £5 note, one £2 coin, one £1 coin, one 50p coin, two 10p coins and one 5p coin (£18 and 75p) to buy the necklace; She could use three £5 notes, two £1 coins, one 50p coin, two 20p coins and two 10p coins (£18 and 10p) to buy the ring. Five different combinations given for each.
8b. Various answers, for example: One £10 note, two £2 coins, one 20p coin, one 10p coins and one 5p coin. If two of these coins fall out the lowest possible total left would be £10 and 35p.

9b. Kaleb is correct because £10 + £1 + 20p + 1p + £5 + £2 = £18 and 21p.



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Reasoning and Problem Solving – Pounds and Pence ANSWERS