





- 1) Amount B is the odd one out. Its total is \pounds 9 and 50 pence. The other amounts all total \pounds 10 and 50 pence.
- 2) Pauline is not correct. Although Mario only has one £10 note, his coins total £16 and 55 pence. This gives him £26 and 55 pence, which is more than Pauline has.
- 1) a) Mario: *Sp* + 2*p* + 1*p* = 8*p* Spike: 1*p* + 1*p* + 1*p* = 3*p*

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b) Mario: 20p + 20p + 20p = 60p
Spike: 50p + 5p + 5p = 60p
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c)

| Mario - 7 amounts | Spike - 5 amounts |
|--------------------------|--------------------------|
| 20p + 20p = 40p | 50p + 5p = 55p |
| 20p + 5p = 25p | 50p + lp = 5lp |
| 20p + 2p = 22p | Sp + Sp = 10p |
| 20p + lp = 2lp | Sp + lp = 6p |
| Sp + 2p = 7p | lp + lp = 2p |
| Sp + lp = 6p | |
| 2p + lp = 3p | |

- d) Each person had a different number of possible totals because each person has a different set of coins. Spike doesn't have as many different coins as Mario, so there are fewer totals possible.
- e) Pauline would be able to make more totals as she has more coins with different values than either Mario or Spike.

| Pauline – 14 amounts |
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| 20p + 10p = 30p |
| 20p + 5p = 25p |
| 20p+2p=22p |
| 20p + lp = 2lp |
| 10p + 10p = 20p |
| 10p + 5p = 15p |
| 10p+2p=12p |
| 10p + 1p = 11p |
| Sp + Sp = 10p |
| Sp + 2p = 7p |
| Sp + lp = 6p |
| 2p+2p=4p |
| 2p + lp = 3p |
| lp + lp = 2p |
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