1) 

|  | $>$ |  |
| :---: | :---: | :---: |
|  | $=$ |  |
|  | $<$ |  |
|  | $>$ |  |
| Complete this statement. |  |  |
| Any amount of coins and notes with a total less than $£ 7$ and 25 pence. | $<$ |  |

2) $£ 12$ and 46 pence
3) Amount B is the odd one out. Its total is $£ 9$ and 50 pence. The other amounts all total $£ 10$ and 50 pence.
4) 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.
5) a) Mario: $5 p+2 p+1 p=8 p$

Spike: $1 p+1 p+1 p=3 p$
b) Mario: $20 p+20 p+20 p=60 p$

Spike: $50 p+5 p+5 p=60 p$
c)

| Mario -7 amounts | Spike -5 amounts |
| :---: | :---: |
| $20 p+20 p=40 p$ | $50 p+5 p=55 p$ |
| $20 p+5 p=25 p$ | $50 p+1 p=51 p$ |
| $20 p+2 p=22 p$ | $5 p+5 p=10 p$ |
| $20 p+1 p=21 p$ | $5 p+1 p=6 p$ |
| $5 p+2 p=7 p$ | $1 p+1 p=2 p$ |
| $5 p+1 p=6 p$ |  |
| $2 p+1 p=3 p$ |  |

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 |
| :---: |
| $20 p+10 p=30 p$ |
| $20 p+5 p=25 p$ |
| $20 p+2 p=22 p$ |
| $20 p+1 p=21 p$ |
| $10 p+10 p=20 p$ |
| $10 p+5 p=15 p$ |
| $10 p+2 p=12 p$ |
| $10 p+1 p=11 p$ |
| $5 p+5 p=10 p$ |
| $5 p+2 p=7 p$ |
| $5 p+1 p=6 p$ |
| $2 p+2 p=4 p$ |
| $2 p+1 p=3 p$ |
| $1 p+1 p=2 p$ |

