

I Need a 10p Maths Investigation

Aim: I can use coins to give change.

Jacob needs a 10p coin, but he only has a £5 note. He goes into a shop to spend as little money as possible in order to receive a 10p coin in the change.

1. The shopkeeper gives change in the smallest number of coins. How much does Jacob need to spend in order to get a 10p coin in the change? Show all the coins he will receive.

2. If Jacob had wanted any other coin, what is the smallest spend for each?

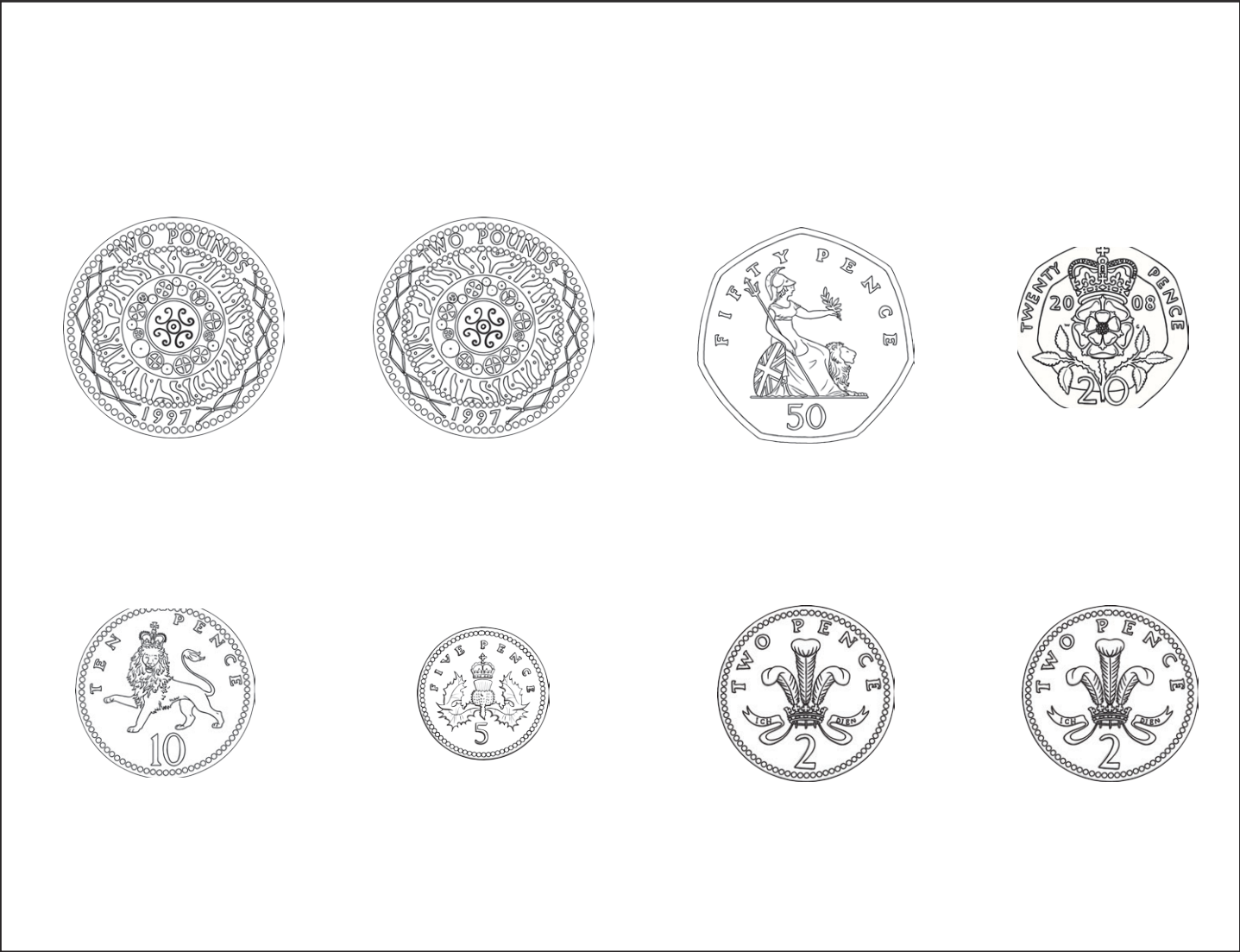
Required coin	1p	2p	5p	10p	20p	50p	£1	£2
Minimum Spend								

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1. The shopkeeper gives change in the smallest number of coins. How much does Jacob need to spend in order to get a 10p coin in the change? Show all the coins he will receive.
He must spend 11p, receiving £4.89 change.



2. If Jacob had wanted any other coin, what is the smallest spend for each?

Required coin	1p	2p	5p	10p	20p	50p	£1	£2
Minimum Spend	2p	1p	1p	11p	1p	1p	£1.01	1p