Year 6 Maths Activity Mat: Change ⑤

Section 1: Change
On a cake stall, you have 3 of each coin. How many different ways can you give 20p change?

Section 2: Mass
Find the mass of 5p and 10p coins.

Section 3: Size
Find the diameter and width of 5p and 10p coins in mm's.

Section 4: How Many
How many 5p coins would cover the whole of your classroom floor? How much would they be worth?

Estimate first.

What about 10p coins?

Section 5: Coins
What is the smallest number of coins that can be used to make £1.99p?

Section 6: Pocket
You have 2 coins in your pocket. How much could you have?

Section 1: Change

On a cake stall, you have 3 of each coin. How many different ways can you give 20p change?

20p

10p 10p

10p 5p 5p

10p 5p 2p 2p 1p

10p 5p 2p 1p 1p 1p

5p 5p 5p 2p 2p 1p

5p 5p 5p 2p 1p 1p 1p

Section 2: Mass

Find the mass of 5p and 10p coins.

5p = 3.25 g

10p = 6.5 g

Section 3: Size

Find the diameter and width of 5p and 10p coins in mm's.

5p Diameter 18 mm, Width 1.7 mm

10p Diameter 24.5 mm, Width 1.85 mm

Section 4: How Many

How many 5p coins would cover the whole of your classroom floor? How much would they be worth?

Estimate first.

1m² of 5ps is worth about £150

What about 10p coins?

1m² of 10ps is worth about £160

Section 5: Coins

What is the smallest number of coins that can be used to make £1.99p?

£1p 50p 20p 20p 5p 2p 2p

Section 6: Pocket

You have 2 coins in your pocket. How much could you have?

36 different amounts

See Excel attached or

8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 36 (triangular number)