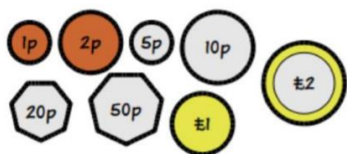


The answers to Friday's challenge.

15.05.20

Y3 Maths

These are the coins commonly used in Britain today



What is the **fewest number of coins you need to make**
(a) 83p (b) £1.34 (c) £5.27?

a) The fewest coins needed to make 83p is 5.

$$50p + 20p + 10p + 2p + 1p$$

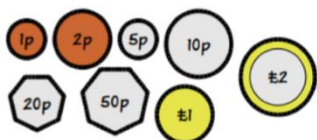
b) The fewest coins needed to make £1.34 is also 5.

$$£1 + 20p + 10p + 2p + 2p$$

c) The fewest coins needed to make £5.27 is 6.

$$£2 + £2 + £1 + 20p + 5p + 2p$$

Challenges:



1) What is the smallest amount you can make using more than 5 different coins.

2) What is the largest amount you can make using more than 5 different coins?

The keywords:

different coins – can't use the same coin twice
more than 5 – at least 6 coins

1) Six smallest coins.

$$1p + 2p + 5p + 10p + 20p + 50p = \mathbf{88p}$$

2) All the coins

$$£2 + £1 + 50p + 20p + 10p + 5p + 2p + 1p \\ = \mathbf{£3.88} \text{ or } \mathbf{£3 \text{ and } 88p}$$