Maths Mastery Money – Answers

1. **Example answers include:**
   2 × £1, 4 × 20p, 10p and 5p
   4 × 50p, 9 × 10p, 2 × 2p and 1p
   £2, 3 × 20p, 3 × 10p, 5p
   £1, 2 × 50p, 4 × 20p, 10p, 2 × 2p and 1p
   2 × 50p, 5 × 20p, 9 × 10p, 5p
   But also accept any other way to make £2.95
   Least amount of coins = £2, 50p, 2 × 20p and 5p

2. **Example answers include:**
   ice cream, postcard and a lolly
   cola, lolly and an ice cream
   lolly, cake and a postcard
   postcard, lolly and cola
   cake and two postcards
   Do not accept any answers that include both cake and ice cream, as a third item would make the price more than £2.

3. 18 different totals:
   £1.50 – 50p, 50p, 50p
   £1.20 – 50p, 50p, 20p
   £1.10 – 50p, 50p, 10p
   £1.05 – 50p, 50p, 5p
   90p – 50p, 20p, 20p
   80p – 50p, 20p, 10p
   75p – 50p, 20p, 5p
   70p – 50p, 10p, 10p
   65p – 50p, 10p, 5p
   60p – 50p, 5p, 5p and 20p, 20p, 20p
   50p – 20p, 20p, 10p
   45p – 20p, 20p 5p
   40p – 20p, 10p, 10p
   35p – 20p, 10p, 5p
   30p – 20p, 5p, 5p and 10p, 10p, 10p
   25p – 10p, 10p, 5p
   20p – 10p, 5p, 5p
   15p – 5p, 5p, 5p

4. a) £5
   b) £6
   c) £6.45
   d) 30p
   e) 50p
   f) £4.50

5. Freddie can pay for the pencil sharpener, the water pistol and the jack-in-the-box without needing change.

6. **Example answers include:**
   6 x 1p
   3 x 1p and 3 x 2p
   10p and 5 x 2p
   2 x 5p, 2p and 3 x 1p
   2 x 20p, 1 x 10p and 3 x 1p
   Reasonable amounts include anything under £1 for one balloon.

7. Imirk bought 3 pencils and 12 pens.

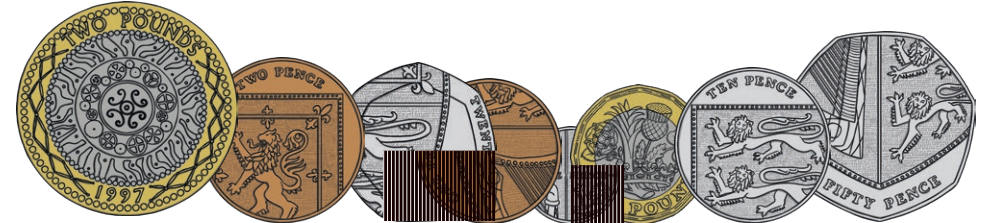8. The pirates found £240.

Maths Mastery
Challenge Cards

Maths Mastery - Money

1. How many different ways can you make the total of £2.95?

You can use the same value coin more than once.

What is the least amount of coins you could use?

Maths Mastery - Money

2. At a market stall by the seaside, Hannah can buy the following items:
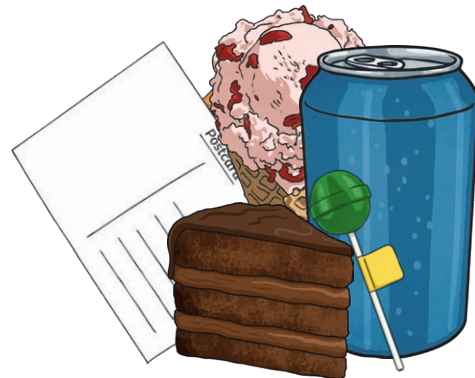
postcard 25p

lolly 35p

ice cream 75p

cake £1.20

cola 55p

Hannah has £2. She buys three items and has less than £1 in change. Which three items could she have bought?

Maths Mastery - Money

3. Maurice the magpie has been stealing again!

He has stolen 3 silver coins.

What different totals could the coins make?

4. What is the most amount of money that can be made using:

a) 3 of these coins?
b) 4 of these coins?
c) 7 of these coins?

What is the least amount of money that can be made using:

d) 3 of these coins?
e) 4 of these coins?
f) 7 of these coins?

5. Freddie has these coins:

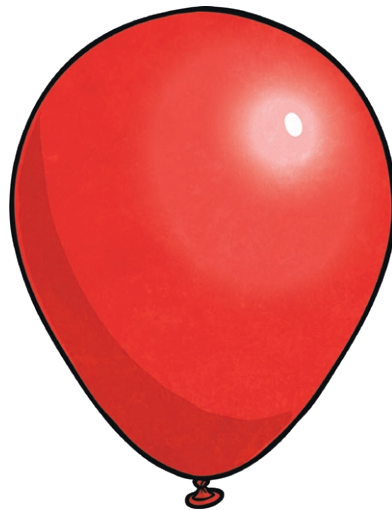Which three items could Freddie pay for exactly without needing change?

52p

14p

3p

45p

49p

6. Ben bought a balloon.

He gave the shopkeeper six coins to pay for it.

What could Ben have paid for the balloon?

Look at your answers. Which ones are reasonable amounts to pay for a balloon?
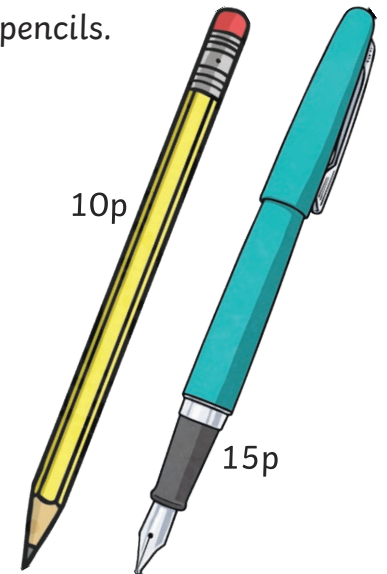
7. Imrik went to buy some pens and pencils.

He had £2.50.

He bought 4 times as many pens as pencils.

He was given 40p change.

How many pens and pencils did he buy?

10p

15p

8. Pete the Pirate and his 2 brothers find some money.

They have a sister called Poppy.

If the brothers shared the money just amongst themselves, they would each get £20 more, than if they shared it equally with their sister too.

What was the sum of money that they had found?