I can solve problems and puzzles organising my answers in a systematic way when necessary.

Example
Complete this number sentence in as many ways as possible.

$$\Box 6 + 8 = \Box\Box$$

$16 + 8 = 24$	$56 + 8 = 64$
$26 + 8 = 34$	$66 + 8 = 74$
$36 + 8 = 44$	$76 + 8 = 84$
$46 + 8 = 54$	$86 + 8 = 94$

Listing the answers in a systematic way makes sure that all the solutions are found.

A

1. Daniel has three 10ps and four 2ps. How much does he have?

2. Lily has five 5ps and three 2ps. How much does she have?

3. Ali has six 10ps and two 5ps. How much does he have?

4. Ella has 2ps and 5ps only. She makes 19p. She uses one 5p. How many 2ps does she use?

5. Will also makes 19p using 2ps and 5ps only. He finds a different way to Ella. How does Will make 19p?

6. Amy puts two 10 g weights and three 5 g weights on a balance. What is the weight on the balance?

Complete each number sentence in as many ways as possible.

7. $15 + \Box = 2\Box$

8. $13 - \Box = \Box$

B

1. Alfie, Lucy and Sam buy a drink each for 67p.
Alfie pays with 5ps.
Lucy pays with 10ps.
Sam pays with 20ps.
How many coins does each child need?

2. James has 85 g on a balance. He takes off three 10 g weights. He takes off four 2 g weights. How much weight is left?

3. Evie has 26 straws. She uses all the straws to make triangles and squares. She finds two ways of doing this so that there are no straws left over. What are the two different ways?

Complete each number sentence in as many ways as possible.

4. $\Box 6 - 9 = \Box\Box$

5. $7\Box + \Box 7 = \Box\Box$

C

1. Naseema, Ellie and Mia each buy a sandwich for £1·55.
Naseema pays with 10ps.
Ellie pays with 20ps.
Mia pays with 50ps.
How many coins does each girl need?

2. Leah has 230 g on a balance. She takes off four 20 g weights. She takes off three 5 g weights. How much weight is left?

3. Cinema tickets cost £5 for adults and £3 for children. Mrs. Prior buys tickets for £43. How many adult tickets has she bought and how many tickets for children? Find all the possible solutions.

Complete each number sentence in as many ways as possible.

4. $\Box 2 - \Box 8 = \Box$

5. $\Box\Box\Box - \Box = \Box 7$