

# This Week's Problems

## Foundation Phase

1. There are many ways of changing money into smaller coins. How many ways can you find to change a 10p into 2p and 1p coins.

Draw a table to find your answer. Use the headings '2p Coins', '1p coins' and 'Total'.

**Tip: Make sure the coins have a total of 10p**

## Key Stage 2

1. Spaceships have 3 round windows and 2 square windows. If an alien can see 30 windows altogether, how many spaceships are there?

Draw a table to find your answer. Use the headings 'Number of Ships', 'Number of Round Windows' and 'Number of Square Windows' and 'Total Windows'

2. There are many ways of changing money into smaller coins. How many ways can you find to change a 50p into 10p and 5p coins.

Draw a table to find your answer. Use the headings '10p Coins', '5p coins' and 'Total'

**Work systematically to find all possibilities.**

## Challenge Questions

1. Ben opened his reading book and saw two numbered pages. The sum of these pages was 317. What would the next page number be?
2. I want to paint a cube. No two opposite faces can be the same colour. What is the least number of paint colours I should buy?