

M6 Problem Solving Scenarios (taken from 2020 Lessons Learned Document)

Seven children exchange handshakes, each one at once.
How many handshakes are there?



Sally checked a book out of the library, and it is now 12 days overdue. If a book is 1 day overdue, the fine is 10¢, 2 days overdue, 20¢, 3 days overdue, 30¢, and so on.
How much is her fine?

Lee bought 32 batteries. He put 8 batteries in his remote-control model car. His 3 sisters divided the rest equally.
How many batteries did each sister receive?

Melinda wants to build a rectangular pen for her chickens. She bought 6 large squares of plywood for the floor of her chicken pen. Each sheet of plywood has a length that measures 2.5 m. She arranges the squares so that all sides are touching. Find all possible dimensions for the floor of the pen.
How much fencing would she need for each pen?

Patrick did an experiment. He used a spinner with blue, red, green and orange parts. His results are recorded in a tally chart.

What might Patrick's spinner look like?

Blue	
Red	
Green	
Orange	

Norbert and Jean-Guy have 430 hockey cards altogether. Norbert has 20 more cards than Jean-Guy.

How many hockey cards do they have?

Each shape represents a different number.

Find a number that each shape could represent.

$$\square + \square + \bullet = 39$$

$$\square + \bullet + \bullet + \triangle = 36$$

$$\square + \bullet + \triangle = 27$$