Year 1 Solutions

Problem One

Faye	Sami	Wendy	Tom
Ben	Joe	Mr Roberts	First Aid Kit

Problem Two

There are four chickens and one sheep.

Sheep \rightarrow 1 x 4 = 4 legs Chickens \rightarrow 4 x 2 = 8 legs

4 legs + 8 legs = 12 legs 1 sheep + 4 chickens = 5 heads

Problem 3

Here is an example of working systematically to find the solution:

If there was 1 egg in the brown basket, no eggs in the red basket and 3 eggs in the pink basket, that would only make 4 eggs.

If there were 2 eggs in the brown basket, 1 egg in the red basket and 4 eggs in the pink basket, this only makes 7 eggs.

So finally, if there were <u>3 eggs in the brown basket, 2 eggs in the red</u> <u>basket and 5 eggs in the pink basket, there would be 10 eggs</u> <u>altogether.</u>

Problem 4

There are a lot of possible bracelets - 24 in total!

It is up to you how many you want your child to find. For example, more able mathematicians may be able to find all, whereas others may need to stop after 12 or even 6. The most important aspect of this task is that they explore how to work systematically i.e. only changing one thing at a time to make sure they don't miss any possible solutions.

Here are the different possibilities if you need them:

There are three possible colour combinations for each bracelet - red and purple, red and blue, blue and purple - and 8 different bead combinations. $3 \times 8 = 24$

Here are the possible combinations for a symmetrical bracelet:

