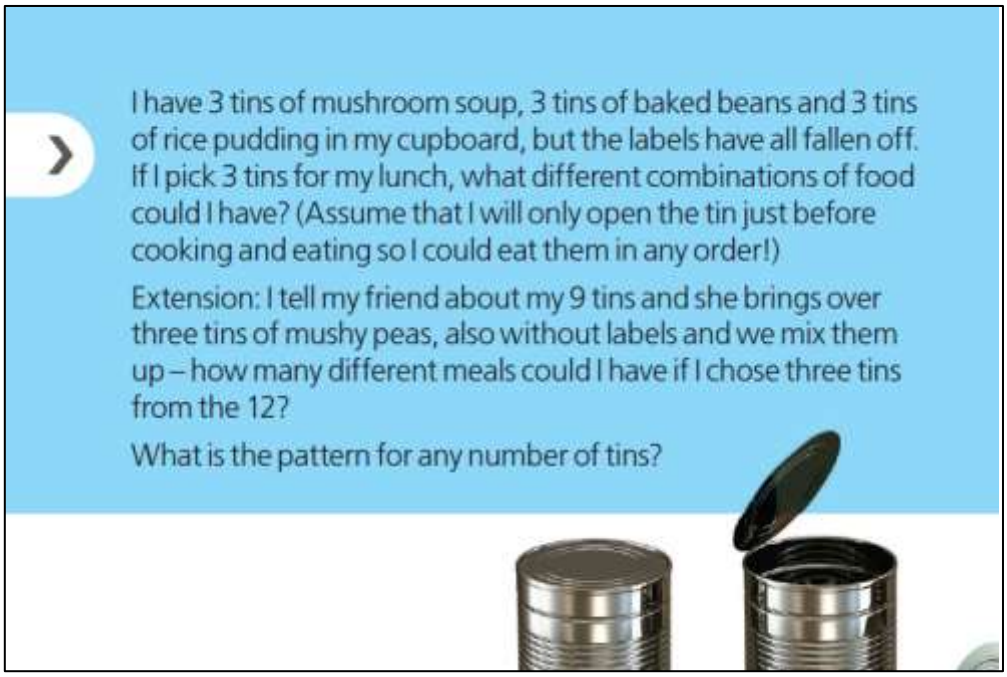

There are 3 things the first tin can be. For each of these, there are 3 things the second tin can be. For each of the options, there are 3 things the third tin can be.

This gives $3 \times 3 \times 3 = 27$ different combinations of food.

For the extended activity, there are $4 \times 4 \times 4 = 64$ different combinations of food.

For n different varieties of tines (with 3 tins of each), the pattern is that there are n^3 different combinations.