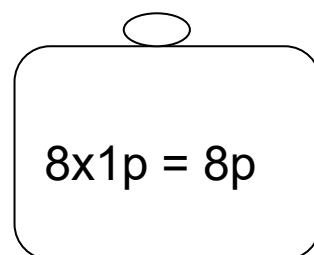
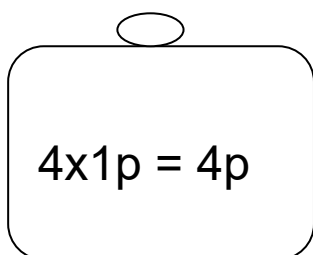
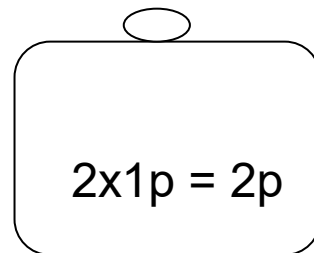
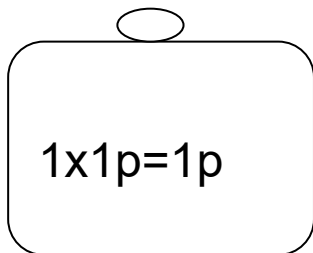


Money Bags

The solution for the Money Bags problem is 1,2,4 and 8

Here is the explanation of how I got my answer:

There are four bags so there can only be four different types of coins. The basic idea behind the solution is to find the four different numbers which can add up to give 1p to 15p. The solution for the question is 1,2,4 and 8. The 1st bag holds 1x1p, the 2nd bag contains 2x1p, the 3rd bag holds 4x1p and the 4th bag contains 8x1p. We can get any number between 1 to 15 using any combination of 1,2,4 and 8.



$$1p = \text{Bag 1}$$

$$2p = \text{Bag 2}$$

$$3p = \text{Bag 1} + \text{Bag 2}$$

$$4p = \text{Bag 3}$$

$$5p = \text{Bag 3} + \text{Bag 1}$$

$$6p = \text{Bag 3} + \text{Bag 2}$$

$$7p = \text{Bag 3} + \text{Bag 2} + \text{Bag 1}$$

$$8p = \text{Bag 4}$$

$$9p = \text{Bag 4} + \text{Bag 1}$$

$$10p = \text{Bag 4} + \text{Bag 2}$$

$$11p = \text{Bag 4} + \text{Bag 2} + \text{Bag 1}$$

$$12p = \text{Bag 4} + \text{Bag 3}$$

$$13p = \text{Bag 4} + \text{Bag 3} + \text{Bag 1}$$

$$14p = \text{Bag 4} + \text{Bag 3} + \text{Bag 2}$$

$$15p = \text{Bag 4} + \text{Bag 3} + \text{Bag 2} + \text{Bag 1}$$