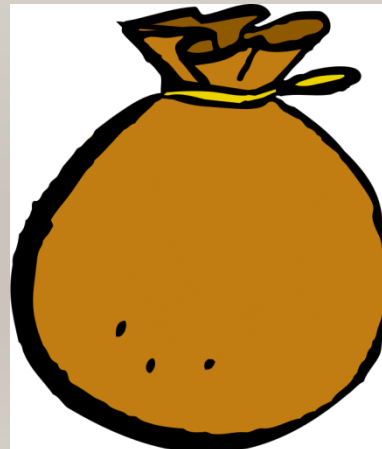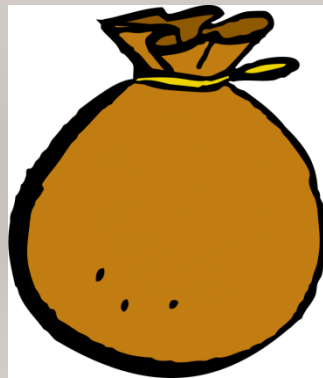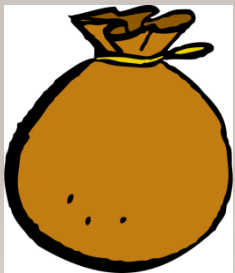# Money bags

Ram divided 15 pennies among four small bags. He could then pay any sum of money from 1p to 15p, without opening any bag.

How many pennies did Ram put in each bag?

<u>Slick Jim</u>

Slick Jim won the lottery.

He spent two thirds of his winnings on a very posh house.

He spent two thirds of what he had left on a luxury yacht.

Then he spent two thirds of what he had left on a hot air balloon.

He spent his last £20000 on a flashy car.

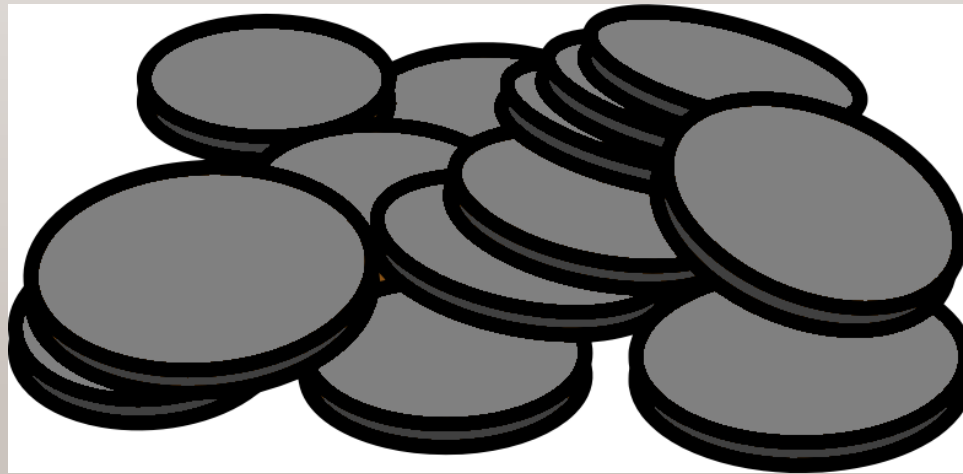**How much did Slick Jim win on the lottery?**

Coins on the table

Anna put some 10p coins on the table.
One half of them were tails up.

Anna turned over two of the coins, and then one third of them were tails up.

How many coins did Anna put on the table?

Pet shop

1. Jim bought a cat and dog for £60 each.

Later he sold them.

He made a profit of 20% on the dog.

He made a loss of 20% on the cat.

How much did he get altogether when he sold the cat and dog?

2. Jim bought another cat and dog.

He sold them for £60 each.

He made a profit of 20% on the dog.
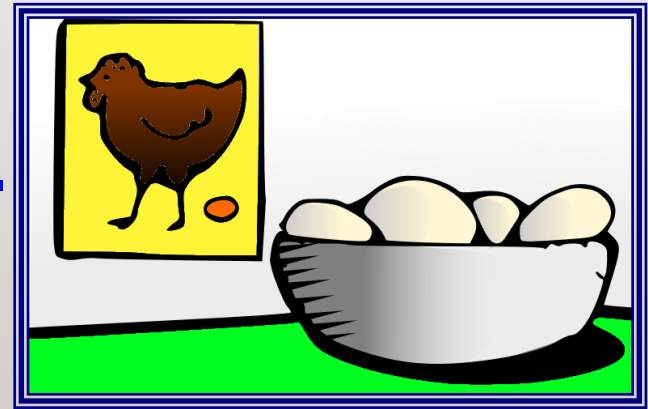
He made a loss of 20% on the cat.

Did he make a profit or loss on the whole deal?

<u>Eggs</u>

Mrs Choy spent exactly £10 on 100 eggs for her shop.

- **Large eggs cost her 50p each.**
- **Medium eggs cost her 10p each.**
- **Small eggs cost her 5p each.**

For two of the sizes, she bought the same number of eggs.

How many of each size did she buy?

Solutions

Money Bags

Ram put **1p, 2p, 4p** and **8p** in the four bags.

Any sum from 1p to 15p can be made with these amounts.

Slick Jim
Jim won **£540 000**.

Coins on the Table
Anna put **12 coins** on the table.

Pet Shop
1. Jim sold the dog and the cat for £72 and £48 respectively, a total of £120.

2. The dog cost £50 and the cat cost £75, a total of £125.

The cat and the dog were sold for a total of £120, so Jim made a loss of £5.

Eggs
Mrs Choy bought:

10 large eggs at 50p each,

10 medium eggs at 10p each,

80 small eggs at 5p each.