Simultaneous Equations Problems

Q1.

* The Singh family and the Peterson family go to the cinema.

The Singh family buy 2 adult tickets and 3 child tickets. They pay $\pounds 28.20$ for the tickets.

The Peterson family buy 3 adult tickets and 5 child tickets. They pay £44.75 for the tickets.

Find the cost of each adult ticket and each child ticket.

(Total for question = 5 marks)

Q2.

3 kg of potatoes and 4 kg of carrots have a total cost of 440p. 4 kg of potatoes and 3 kg of carrots have a total cost of 470p.

Work out the total cost of 1 kg of potatoes and 1 kg of carrots.

.....p

(Total for question = 4 marks)

Q3.

Susie has to deliver some packages and some parcels.

The total number of packages is 4 times the number of parcels. The total number of packages and parcels is 40

Each parcel has a weight of 1.5 kg. The total weight of the packages and parcels is 37.6 kg.

Each of the packages has the same weight.

Work out the weight of each package.

(Total for Question is 4 marks)

Q4.

A cinema sells adult tickets and child tickets.

The total cost of 3 adult tickets and 1 child ticket is \pounds 30 The total cost of 1 adult ticket and 3 child tickets is \pounds 22

Work out the cost of an adult ticket and the cost of a child ticket.

adult ticket £.....

child ticket £.....

(Total for question = 4 marks)

Q5.

* Paper clips are sold in small boxes and in large boxes.

There is a total of 1115 paper clips in 4 small boxes and 5 large boxes.

There is a total of 530 paper clips in 3 small boxes and 2 large boxes.

Work out the number of paper clips in each small box and in each large box.

(Total for Question is 5 marks)