## 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 $£ 28.20$ 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.

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.

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.

Q4.

A cinema sells adult tickets and child tickets.
The total cost of 3 adult tickets and 1 child ticket is $£ 30$
The total cost of 1 adult ticket and 3 child tickets is $£ 22$
Work out the cost of an adult ticket and the cost of a child ticket.
$\qquad$
child ticket $£$.

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.

