Q1. Caroline is making some table decorations. Each decoration is made from a candle and a holder.
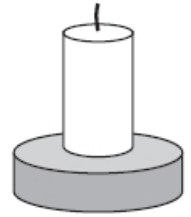
Caroline buys some candles and some holders each in packs.

There are 30 candles in a pack of candles.
There are 18 holders in a pack of holders.

Caroline buys exactly the same number of candles and holders.

(i)   How many packs of candles and how many packs of holders does Caroline buy?

candle and
holder

Caroline uses all her candles and all her holders.

(ii)   How many table decorations does Caroline make?

(5)

Q2. Buses to Exeter leave a bus station every 20 minutes.
Buses to Plymouth leave the bus station every 16 minutes.

A bus to Exeter and a bus to Plymouth both leave the bus station at 8am.

When will buses to Exeter and Plymouth next leave the bus station at the same time?

(3)

Q3. Miss Paisley is organising games for the children in her class. She is going to put the children into teams.

If she puts the children into teams of 4, there will be 2 children left out.
If she puts the children into teams of 5, there will be 3 children left out.

Work out the smallest possible number of children in Miss Paisley's class.

(3)

Q4. John buys some boxes of pencils and some packets of pens for people to use at a conference.

       There are 40 pencils in a box.
       There are 15 pens in a packet.

John gives one pencil and one pen to each person at the conference.
He has no pencils left.
He has no pens left.

How many boxes of pencils and how many packets of pens did John buy?

(3)

Q5. Sally is going to buy some packs of blue paint and some packs of white paint.
       Blue paint is sold in packs of 12 tubes.
       White paint is sold in packs of 15 tubes.

Sally is going to put all the tubes of paint she buys into boxes.
She is going to put 1 tube of blue paint and 1 tube of white paint in each box.

Sally wants to buy the smallest number of packs of blue paint and the smallest number of packs of white paint.

Work out the number of packs of blue paint and the number of packs of white paint she will buy.

(4)