1. (a) A multipack contains b packs of barbecue flavour crisps, and c packs of cheese and onion flavour crisps.
   Write down an expression for the total number of packs of crisps in the multipack.

   (b) A multipack contains b packs of barbecue flavour crisps, c packs of cheese and onion flavour crisps and r packs of ready salted crisps.
   Write down an expression for the total number of packs of crisps in the multipack.

2. (a) A hotel buys some towels.
   They buy 7 packets of hand towels.

   Each packet contains h hand towels.
   They buy a total of T hand towels.

   Write a formula for T, in terms of h.

   (b) A hotel buys some towels.
   They buy h packets of hand towels.

   Each packet contains 6 hand towels.
   They buy a total of T hand towels.

   Write a formula for T, in terms of h.

   (c) A hotel buys some towels.
   They buy h packets of hand towels.

   Each packet contains 6 hand towels.

   Write an expression, in terms of h, for the total number of hand towels the hotel buys.

   (d) A hotel buys some towels.
   They buy 7 packets of hand towels.

   Each packet contains h hand towels.

   Write an expression, in terms of h, for the total number of hand towels the hotel buys.

3. (a) The catering manager has n packets of apples.
   There are 6 apples in a packet.

   (i) Write down an expression, in terms of n, for the total number of apples the catering manager has.

   11 of the apples are used to make up packed lunches for a school trip.

   (ii) Write down an expression, in terms of n, for the number of apples the catering manager has now.

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(b) Layla has written 3 numbers on a piece of paper.
She says "The first number is n"
She says "The second number is 4 times the first number"

(i) Write down an expression, in terms of n, for Layla's second number.

She says "The third number is 6 less than the second number"

(ii) Write down an expression, in terms of n, for Layla's third number.

(c) Harrison is y years old.
Harrison's grandpa is 6 times as old as Harrison.

(i) Write down an expression, in terms of y, for the age of Harrison's grandpa.

Harrison's sister is 46 years younger than Harrison's grandpa.

(ii) Write down an expression, in terms of y, for the age of Harrison's sister.

4. (a) A hotel buys some glasses.

They buy m packets of wine glasses.
They buy n packets of water glasses.

Each packet of wine glasses contains 4 glasses.
Each packet of water glasses contains 6 glasses.

They buy a total of T glasses.
Write a formula for T, in terms of m and n.

(b) A hotel buys some glasses.

They buy 3 packets of wine glasses.
They buy 4 packets of water glasses.

Each packet of wine glasses contains m glasses.
Each packet of water glasses contains n glasses.

They buy a total of T glasses.
Write a formula for T, in terms of m and n.

(c) {as part (a) except the instruction line says ...}
Write an expression, in terms of m and n, for the total number of glasses the hotel buys.

(d) {as part (b) except the instruction line says ...}
Write an expression, in terms of m and n, for the total number of glasses the hotel buys.

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5. Here are the first five terms of a Fibonacci sequence.

   5 2 7 9 16

   The rule to continue a Fibonacci sequence is,

   the next term in the sequence is the sum of the two previous terms.

   (i) Find the 7th {6th or 8th or 9th or 10th} term of the sequence.

   The first four terms of a different Fibonacci sequence are

   (a) q q $2q$ $3q$

   Show that the 8th term of this sequence is $21q$

   (b) j k $j+k$ $j+2k$

   Show that the 7th {or 6th or 8th or 9th } term of this sequence is $3j+5k$

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