1. A gardener buys some bulbs.

He buys a packets of allium, c packets of crocus and t packets of tulip bulbs.

The gardener wrote a = 5, c = 15 and t = 65

To work out the total number number of packets of bulbs, B, he bought he could:

- (i) do the calculation......(ii) use the formula.....(iii) use the expression.....You may useB = a + c + ta + c + t5 + 15 + 65
- 2. (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.
- 3. If supermarkets don't reduce the price of food close enough to the sell by date, they often have to throw food away.

A supermarket worker has to throw away some fruit.

First she has to throw away 15 bags of apples.

Each bag contains 6 apples.

(a) Write down a **calculation** to work out the total number of apples she throws away.

Next she throws away b bunches of bananas.

There are 7 bananas in a bunch.

(b) Write down an **expression**, in terms of b, for the total number of bananas she throws away.

Then she throws away 14 punnets of peaches.

There are p peaches in a punnet.

She throws away a total of T peaches.

(c) Write down a **formula** for T, in terms of p.

- 4. In this question you will turn a situation into a word formula and into an algebra expression.
- (a) Read the situation.

A cook buys 4 box of eggs.

There are e eggs in a box.

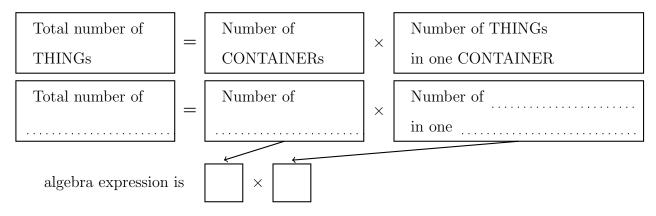
Write an expression, in terms of e, for the total number of eggs bought.

(b) Complete these:

THING: CONTAINER:

egg, box

(c) Complete the word formula with the correct words.



- (d) Complete the algebra expression (above) with the correct letters or numbers.
- (e) Simplify the algebra expression and write it on the answer line.
- 5. (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 b packets of bath towels.

Each packet contains 6 bath towels.

Write an expression, in terms of b, for the total number of bath towels the hotel buys.

6.

6. not. written yet

7. (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.

(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.
- 8. 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.