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

- (a) Write down a **calculation** to work out the total number of packets of bulbs he bought.
- (b) Write down an **expression** for the total number of packets of bulbs he bought.

The total number of packets of bulbs he bought is B

- (c) Write down a **formula** for the total number of bulbs he bought.
- 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 formula expression.
- (a) Read the situation.

A hotel buys 5 packets of bed sheets.

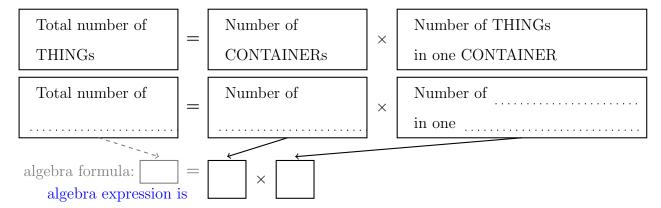
Each packet contains b bed sheets.

Write a formula/an expression, in terms of b, for the total number of bed sheets bought.

(b) Complete these:

THING:	CONTAINER:	

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



- (d) Complete the algebra formula/expression (above) with the correct letters or numbers.
- (e) Simplify the algebra formula/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 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.

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) 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) {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.