Study the following set: **R= {apple, banana, cherry, date, egg}.**
Use the following table to list all the subsets of R.

	List of subsets	Number of subsets
zero elements	{ }	
one element		
two elements		
three elements		
four elements		
five elements		
Total number of subsets:		

Study the following set: **A = {1, 2, 3, 4, 5, 6}**

Place an X in the appropriate box to identify the correct statements.

(a) $\{2, 3\} \subset A$ ☐

(b) $\{1, 2, 3, 4, 5, 6, 7\} \subset A$ ☐

(c) $8 \subset A$ ☐

(d) $\{3, 5, 1, 7\} \subset A$ ☐

(e) $\{1\} \not\subset A$ ☐

(f) $\{1, 2, 3, 4\} \subset A$ ☐

(g) $\{ \} \subset A$ ☐

(h) $9 \not\subset A$ ☐

HOMEWORK

Study the following set: **K= {chicken, crab, beef, shrimp, prawns, mutton}.**
Use the following table to list all the subsets of K.

	List of subsets	Number of subsets
zero elements	{ }	
one element		
two elements		
three elements		
four elements		
five elements		
six elements		
Total number of subsets:		

Using the formula **2^n**, calculate the total number of subsets that can be formed from a set with:

  (a)   4 elements

  (b)   7 elements

  (c)   3 elements

  (d)   5 elements

  (e)   6 elements

Use the symbol $\subset$ to list all the subsets of the following set: K= {5, 7, 9, 11}.
The first one is done for you.

  1. {5} $\subset$ K