

Excel Assignment 3 Solutions

1. We have

(a) There are 43 cereals.

(b) General Mills: 13

Kellogg: 12

Post: 6

(c) There were 14 advertised.

(d) For 50 or less: 31

For 40 or less: 15

(e) We have

(i) $\frac{1}{43} = 2.3\%$

(ii) $\frac{14}{43} = 32.6\%$

(iii) $\frac{14}{31} = 45.2\%$

(iv) $\frac{11}{15} = 73.3\%$

(f) The less nutritional cereals are marketed more heavily to children.

(g) We have:

(i) $\frac{4}{12} = 33.3\%$

(ii) $\frac{4}{14} = 28.6\%$

(h) No, they are not expected to be equal.

In (i) we are restricting our attention to the Kellogg cereals and asking how many are heavily advertised. There are 4 that are heavily advertised out of 12 Kellogg makes, so 4 out of 12.

In (ii) we are restricting our attention to the 14 that are heavily advertised. Among those there are 4 that are make by Kellogg (it's the same 4 as in (i)), so the probability is 4 out of 14.