Question of the day   Day 2

George is the manager of a shoe shop.
He samples 50 of his customers and asks them about the **one** style of shoe they would buy next.
The table shows his results.

Style of shoe	Number of customers
Laced shoes	18
Boots	15
Sandals	8
Trainers	5
Other	4

Proportion of customers that said they would buy sandals next is

$$\frac{8}{50} = \frac{16}{100}$$
$\times 2$

Now we are working with 1000 shoes, multiply 100 x 10 to make the denominator 1000.

$$\frac{16}{100} = \frac{160}{1000} = 160 \text{ Sandals}$$

George buys 1000 pairs of shoes with the number of each style based on his survey results.

How many pairs of sandals should he buy?
Write down any assumption you make about his sample.

He needs to buy 160 pairs of sandals. The assumption made is that the sample

of 50 people is representative.   [3]   Foundation