

M4 = 8 days to go!

13 A coat is priced £150

With 12% discount in a sale a profit of £7 is made.

What would the percentage profit be if the coat was sold at the full marked price?

Show all your working clearly.

Answer _____ % [5]

15 The table shows information about 250 workers in a factory.

Work Area	Number of Women	Number of Men
Dispatch	4	28
Office	26	14
Design	15	12
Canteen	34	20
Production	29	68

The manager decides to carry out a survey about the workers' views on a new logo for the company.

He decides to take a sample of 60 workers.

(a) One option is to go to the canteen at lunchtime and select 60 workers.

Give two reasons why this may not produce a representative sample.

1. _____

2. _____
_____ [2]

The manager decides to use a stratified sample of 60 workers instead.

(b) Work out the number of women that should be in the sample.

Answer _____ [2]

(c) How many office workers should be in the sample?

Answer _____ [2]

(d) Suggest one way the manager could achieve an even more reliable sample.

Answer _____ [1]