1 A building company employs

2 labourers

14 joiners

9 electricians

8 plumbers.

For a job, the company needs one of each type of worker.

1 (a) In how many ways can the company choose the four workers?

[2 marks]

Answer _____

1 (b) One labourer and two plumbers are on holiday.

In how many ways can the company now choose the four workers?

[2 marks]

Answer _____

2   In a video game, players make their own character.

They choose one of each from

8 faces

4 bodies

5 hairstyles.

2 (a)   How many different characters can be made?

[2 marks]

Answer

3   Fatima is choosing a 4-digit code.

Each digit is a whole number from 0 to 9

She decides

all her digits will be odd numbers

no digits will be repeated.

How many different codes can she make?

[2 marks]

Answer