

**1** Mohsen is going to a party.

He will choose at random one shirt from the three shirts and one pair of trousers from the three pairs of trousers in the list below.

Shirts	Trousers
Blue (B)	Green (G)
Red (R)	Orange (O)
Yellow (Y)	Purple (P)

(a) Write down all the possible combinations that Mohsen can choose.

BG, BO, BP, RG, RO, RP, YG, YO, YP (2)

(2)

(Total for Question 1 is 2 marks)

- 2 Paul is buying a sandwich and a drink in a meal deal.

He can have a cheese sandwich ( $C$ ) or an egg sandwich ( $E$ ) or a tomato sandwich ( $T$ ).

He can have orange juice ( $O$ ) or milk ( $M$ ) or water ( $W$ ) to drink.

Write down all the possible combinations Paul can buy.

$CO, CM, CW, EO, EM, EW, TO, TM, TW$ . (2)

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(Total for Question 2 is 2 marks)

- 3 Hassan is going to eat at a restaurant.  
Here is the menu at the restaurant.

Starter	Main course
Fruit (F) Prawns (P) Soup (S)	Burger (B) Curry (C) Lasagne (L) Risotto (R)

Hassan is going to choose one starter and one main course from the menu.  
List all the possible combinations that Hassan can choose.

FB, FC, FL, FR, PB, PC, PL, PR, SB, SC, SL, SR. 2

- 4 Mario is going to play two games on Saturday.  
He will play one game on Saturday morning and one game on Saturday afternoon.  
The following table shows the games from which he is going to choose.

Morning	Afternoon
Bridge (B)	Ludo (L)
Chess (C)	Mahjong (M)
Draughts (D)	Snakes and ladders (S)

- (a) Write down all the possible combinations of games that Mario can play on Saturday.

BL , Bm , Bs , CL , Cm , Cs , DL , Dm , Ds

2

(2)

(Total for Question 4 is 2 marks)

5 Hazel is buying a snack and a drink.

She can have a bar of chocolate ( $B$ ) or some fruit ( $F$ ) or a packet of crisps ( $C$ ) as her snack.

She can have orange juice ( $O$ ) or apple juice ( $A$ ) or water ( $W$ ) as her drink.

Write down all the possible combinations Hazel can have.

$BO, BA, BW, FO, FA, FW, CO, CA, CW$

2

(Total for Question 5 is 2 marks)

6 At school each week, Gabriella has to play a sport on Monday and a sport on Thursday.

The table shows the sports from which she can choose on Monday and the sports from which she can choose on Thursday.

Monday	Thursday
Tennis (T)	Volleyball (V)
Netball (N)	Badminton (B)
Hockey (H)	Tennis (T)

Write down all the possible combinations of these sports that Gabriella can play in one week.

TV, TB, TT, NV, NB, NT, HV, HB, HT 2

(Total for Question 6 is 2 marks)

7 In a library there are two trolleys of books.

On trolley 1 the subjects of the books are Buildings (B), Rivers (R) and Space (S).

On trolley 2 the subjects of the books are Buildings (B), History (H) and Animals (A).

Tomos takes one book from trolley 1 and one book from trolley 2

Write down all the possible combinations of subjects that Tomos can take.

BB, BH, BA, RB, RH, RA, SB, SH, SA (2)

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(Total for Question 7 is 2 marks)

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- 8 Linford is going to take part in an athletics competition.  
He can choose one event from List **A** and one event from List **B**

List A	List B
Discus ( <i>D</i> ) Hammer ( <i>H</i> ) Javelin ( <i>J</i> ) Shot Put ( <i>S</i> )	Long Jump ( <i>L</i> ) Pole Vault ( <i>P</i> ) Relay ( <i>R</i> )

Write down all the possible combinations Linford can choose.

DL, DP, DR, HL, HP, HR, JL, JP, JR, SL, SP, SR (2)

(Total for Question 8 is 2 marks)