Combinations (F)

A collection of 9-1 Maths GCSE Sample and Specimen questions from AQA, OCR, Pearson-Edexcel and WJEC Edugas.

Name:	Shanks	
Total Marks:		

1. Three friends, Ann (A), Bob (B) and Carol (C), go on holiday together.

They book a row of three seats on the plane.

When they arrive at the plane they sit in a random order.

List all the different orders they could sit on the three seats.

The first one has been done for you.

Seat 1	Seat 2	Seat 3
A	B	С
Α	C	В
В	A	C
B	_	3
C	A	В
C	В	A

- 2. A game is played by rolling a fair ordinary dice and throwing a fair coin.
- (a) List all the possible outcomes.

Dice	Coin
1	H
į	T
2	H
2	T
3	H
. 3	T
4	H
4	T
5	H
5	T
2 3 3 4 4 5 5	Н
6	T

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(b) Natalie wins if she gets an even number and a head.

What is the probability she wins?

(b)	3/12	=	1/4	[1]
(U)				 . [1]

3. Sally has three tiles.

Each tile has a different number on it.

Sally puts the three tiles down to make a number.

Each number is made with all three tiles.

How many different numbers can Sally make?

12 321

So 6 differt number.

4. In a box there are three types of chocolates.

There are 6 plain chocolates,

8 milk chocolates

and 10 white chocolates.

Deon takes 2 chocolates from the box.

(b) Write down all the possible combinations of types of chocolates that Deon can take.

PM, PW, MW PP, MM, WW

5. Beth uses these four cards to make 4-digit numbers.

5

8

How many different 4-digit numbers can she make that are greater than 8000?

8245 8254 8425 8452 306. 8524 8542

[2]

[2]