Name: SOLUTIONS

GCSE (1 - 9)

Systematic Listing

Buy me a coffee

Solutions by
Kenneth Stafford
MATHS TUTOR
ken@kennethstafford.co.uk

These questions represent all of the times that this topic has appeared in unlocked Pearson Edexcel GCSE maths papers as of July 2023. More questions can be found at examq.co.uk

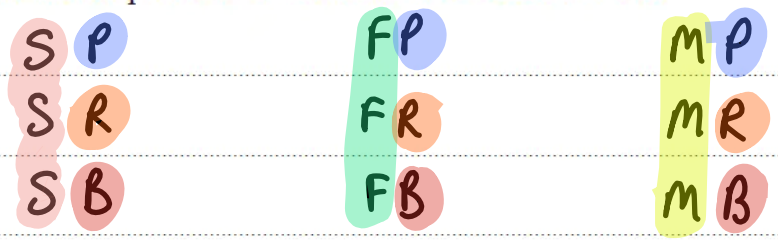
Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 3F, Q7
2	Edexcel, GCSE, Autumn 2017, Paper 1F, Q17
3	Edexcel, GCSE, Summer 2018, Paper 2F, Q7
4	Edexcel, GCSE, Autumn 2018, Paper 2F, Q14
5	Edexcel, GCSE, Autumn 2019, Paper 1F, Q11
6	Edexcel, GCSE, Autumn 2020, Paper 2F, Q12

1

Priti is going to have a meal.
She can choose one starter and one main course from the menu.

Menu	
Starter	**Main Course**
Salad	Pasta
Fish	Rice
Melon	Burger

Write down all the possible combinations Priti can choose.



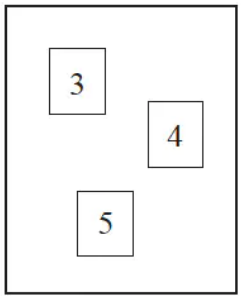
(Total for Question 7 is 2 marks)

[Edexcel, GCSE, Summer 2017, Paper 3F, Q7]

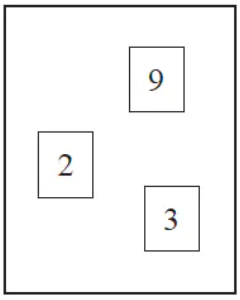
2

There are 3 cards in Box **A** and 3 cards in Box **B**.
There is a number on each card.

Box **A**



Box **B**



odd = 4
even = 5
total 9

Ryan takes at random a card from Box **A** and a card from Box **B**.
He adds together the numbers on the two cards to get a total score.

Work out the probability that the total score is an odd number.

3+2=5
3+9=12
3+3=6

4+2=6
4+9=13
4+3=7

5+2=7
5+9=14
5+3=8

$\frac{4}{9}$

(Total for Question 17 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 1F, Q17]

3

Mohsin, Yusuf and Luke are going to play a game.
At the end of the game, one of them will be in First place, one of them will be in Second place and one of them will be in Third place.

Use the table below to list all the possible outcomes of the game.

First place	Second place	Third place
M	Y	L
M	L	Y
Y	M	L
Y	L	M
L	M	Y
L	Y	M

(Total for Question 7 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 2F, Q7]

4

Victoria throws an ordinary fair 6-sided dice once.

She says,

"The probability of getting a 3 is half the probability of getting a 6"

(a) Is Victoria correct?
You must explain your answer.

No. The probabilities are the same.

Probability of getting a 3 is $\frac{1}{6}$

Probability of getting a 6 is $\frac{1}{6}$

(1)

Andy throws the dice twice.
He says,

"The probability of getting a 6 on both throws is $\frac{2}{6}$"

(b) Is Andy correct?
You must explain your answer.

No.

$\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$

The probability is $\frac{1}{36}$

(1)

Indre throws the dice once.
She also throws a coin to get Heads or Tails.

(c) List all the possible outcomes she can get.

H1 H2 H3 H4 H5 H6

T1 T2 T3 T4 T5 T6

(2)

(Total for Question 14 is 4 marks)

[Edexcel, GCSE, Autumn 2018, Paper 2F, Q14]

5

Mason throws a coin 3 times.
The outcome of each throw is either Heads or Tails.

List all the possible outcomes of the 3 throws.

H H H
H H T
H T T
H T H
T T T
T T H
T H H
T H T

(Total for Question 11 is 2 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q11]

6

Lucy uses a code to open a lock.

The code is a letter followed by a 2-digit number.

The letter is L or U.
The number is a prime number between 20 and 30 23 29

Write down all the possibilities for Lucy's code.

L 23
U 23
L 29
U 29

(Total for Question 12 is 2 marks)

[Edexcel, GCSE, Autumn 2020, Paper 2F, Q12]