

Name

Class

# MATHS TEACHER HUB

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## Listing

### (9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- If the question is a **1F** question you are not allowed to use a calculator.
- If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

### Information

- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

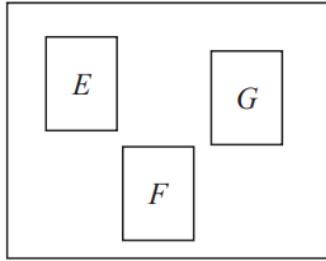
### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

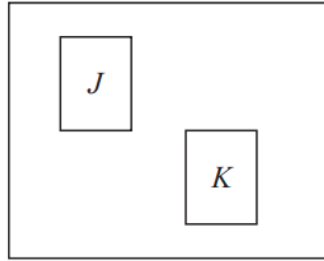
**Answer ALL questions**

**Write your answers in the space provided.  
You must write down all the stages in your working.**

- 7 There are three cards in bag A and two cards in bag B.  
There is a letter on each card.



Bag A



Bag B

James takes a card from bag A and then a card from bag B.

List all the possible outcomes.

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- 7 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

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

<b>Menu</b>	
<b>Starter</b>	<b>Main Course</b>
Salad	Pasta
Fish	Rice
Melon	Burger

Write down all the possible combinations Priti can choose.

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**11** 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.

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**(Total for Question 11 is 2 marks)**

- 11** 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** 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

Write down all the possibilities for Lucy's code.

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