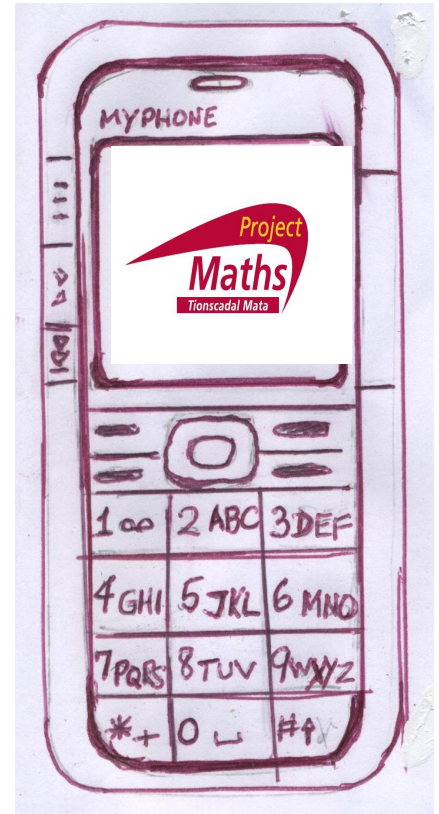


ACTIVITY 2

1.

Use the picture of the mobile phone keypad to fill in the letters that are on each key in the table below.

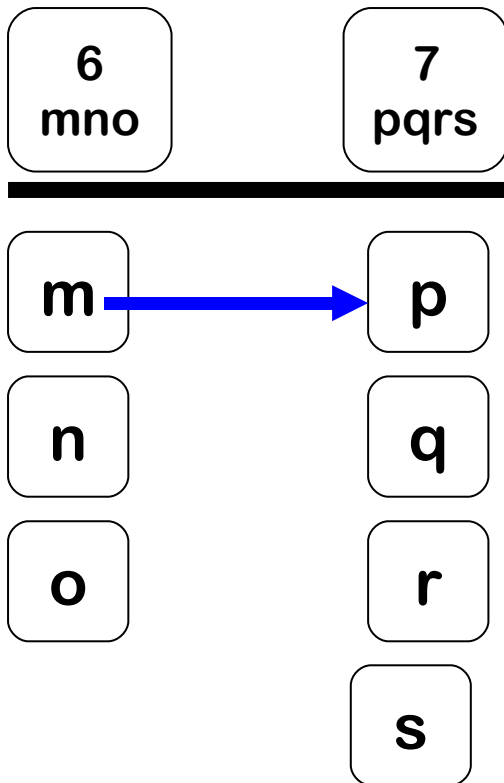
KEY	LETTERS on the Key				No. of letters on key
2					
3					
4					
5					
6					
7					
8					
9					



Activity 2

2.

Mary pressed two keys in succession on her phone. She pressed 6 and then 7.



1. Predict how many different pairs of letters are possible.

2. Using arrows, complete the diagram showing all possible pairs of letters that Mary could get by pressing 6 and then 7.

3. How many pairs of letters did you find?

3. This table is another way to set out all the choices in an ordered way so that we don't miss any. The first pair is filled in for you. Complete the table

	p	q	r	s
m	mp			
n				
o				

How do you calculate the total number of pairs of letters in this case without listing them?

.....

.....

.....

Activity 2

5.

Mary then selected four keys : 4,6,6,3 in that order to see if she could make an English word. She found that there were many possible variations of four letters but not all were English words. Mary found the word GOOD.

KEY	4	6	6	3
Letters				
No. of letters on the key				
WORD1	G	O	O	D
WORD2				
WORD3				
WORD4				

Complete the table:

- Fill in the letters for each key.
- Fill in the number of letters on each key
- Find three more English words that can be made from the letters available on the keys 4663.
- How would you calculate the number of **ALL** possible four-letter variations that you could get using these four keys?

6.

- What keys do you press to spell the word MATHS _____
- How many other five letter variations are possible by using these keys in the same order?

7.

Write down any sequence of keys that would give 48 different 3-letter variations.