Lots of DATA 6

SHOE SIZE	Frequency
4	3
5	5
6	6
7	4
8	2

Jude collected the shoe sizes of students in his class.

(a) What is the mean shoe size?

(b) Another student joins the class.

His shoe size is 8 .

Will the mean change if his data is included?

AGE	Frequency
14	1
15	7
16	8
17	3
18	1

Zoe collected the ages of students in her football team

(a) What is the mean age?

(b) Another girl joins the team

She says that the mode will change if she is included.

What age could she be?

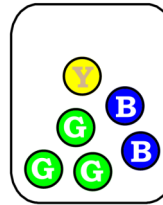| Flavour	Frequency
Salted	4
BBQ	8
Chilli	5
Chicken	3

Some students were asked what was favourite flavour of crisps.

What is the probability that someone chose BBQ?

What is the probability of Chicken?

What is the probability of not picking Salted?

What is the probability of Chilli or BBQ?

Some counters are mixed in a bag.

At random a counter is picked.

What is the probability of picking a Blue (B)?

What is the probability of picking a Red (R)?

What is the probability of picking a Blue or Green?

What is the probability of not picking a Blue ?

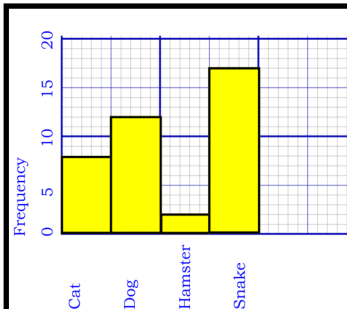P I N E A P P L E

9 cards have some letters written on them.

They are shuffled together and then a card is drawn at random.

What is the probability of picking a P?

What is the probability of picking a S?

What is the probability of picking a P or E?
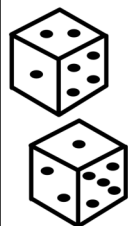
What is the probability of not picking a P?

A survey was done about favourite pets.

What is the probability that someone picked snake?

What is the probability that some did not pick cat?

What is the probability of not picking a snake?

2 normal fair dice are thrown together.

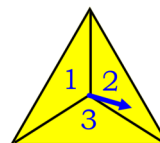Fill in the possibility space when the scores are added.

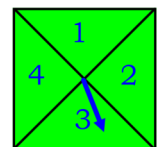| +	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						

What is the probability of scoring total of 6?

What is the probability of getting more than 9?

These 2 spinners are used together.

Fill in this possibility space when the results are added.

+	1	2	3
1			
2			
3			
4			

What is the probability of scoring 5?

What is the probability of getting an odd number?

SHOE SIZE	Frequency
4	3
5	5
6	6
7	4
8	2

Jude collected the shoe sizes of students in his class.

(a) What is the modal shoe size?

(b) What is the median shoe size?

(c) Another student joins the class.

His shoe size is 8 .

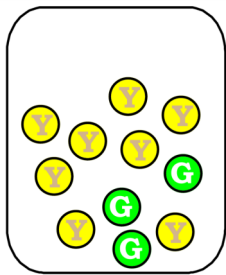Will the mode or the median change if his data is included?

AGE	Frequency
14	1
15	7
16	8
17	3
18	1

Zoe collected the ages of students in her football team

(a) What is the modal age?

(b) What is the median age?

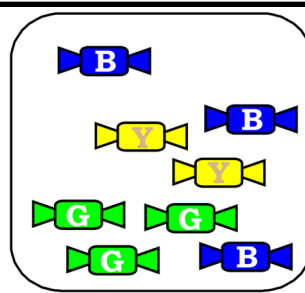(c) Another girl joins the team

She says that the mode will change if she is included.

What age could she be?

Some counters are in a bag.

Can you add some counters so that the probability of getting GREEN is 0.5
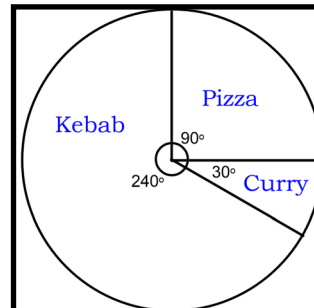

Some sweets are in a jar.

What sweets do you need to add to the jar so that the probability of blue is $1/3$?

Beef	Salted	BBQ	Cheese	Chicken
0.17	0.21	0.15	0.05	

This table shows the probability of different flavours of crisps.

Fill in the missing probability for Chicken.

What is the probability of not picking BBQ?

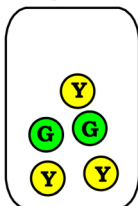What is the probability of not picking Cheese?

Here is a pie chart that shows favourite meal.

What is the probability that someone did not pick Pizza?

What is the probability that someone picked Curry or Pizza?

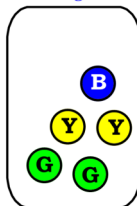What is the probability someone did not pick Kebab?

Bag A

Bag B

A counter is taken from each bag.

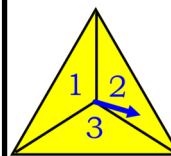The colour of each is noted.

Fill in the possibility space.
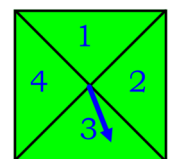

What is the probability of getting 2 yellows?

These 2 spinners are used together.

Fill in this possibility space when the results are multiplied

x	1	2	3
1			
2			
3			
4			

What is the probability of scoring 4?

What is the probability of getting an odd number?