

Probability Sheet 1

Non-Calculator

Questions

- Q1.** On a School trip student have a choice of picking a snack for lunch the table below records the classes choices.

Snack	Apple	Orange	Bannana	Crisps	Oat Bar
Frequency	5	2	6	12	5
Probability					

- (a) Fill in the probability row on the table
- (b) Work out the probability of picking a student who has picket an oat bar or crisps.

Q2.

A con artist uses an unfair spinner with 5 outcomes. The probability of landing on x then y is 0.02.

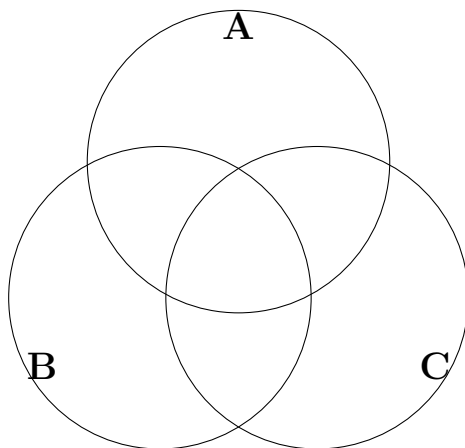
Spinner	A	B	C	D	E
Probability	x	0.1	$x + 0.1$	0.4	y

- (a) Calculate x and y
- (b) What is the probability of landing on A three times in a row.

Q3.

150 students at school have to choose at least one sport from the the three options A :Table tennis, B :Running and C : Football.

A, B and C	A and B	A and C	B and C	A	B	C
12	26	20	28	48	59	55



- (a) Fill in the Venn diagram

- (b) What is the probability of a student doing Table tennis and running or Just football
- (c) What is the probability that a student doing table tennis does all three sports.

Challenge

1. A bag contains red and blue counters. The probability of picking two red counters without replacement is $\frac{1}{3}$ The number of blue counters is one more than the number of red counters. Calculate the number of red counters.