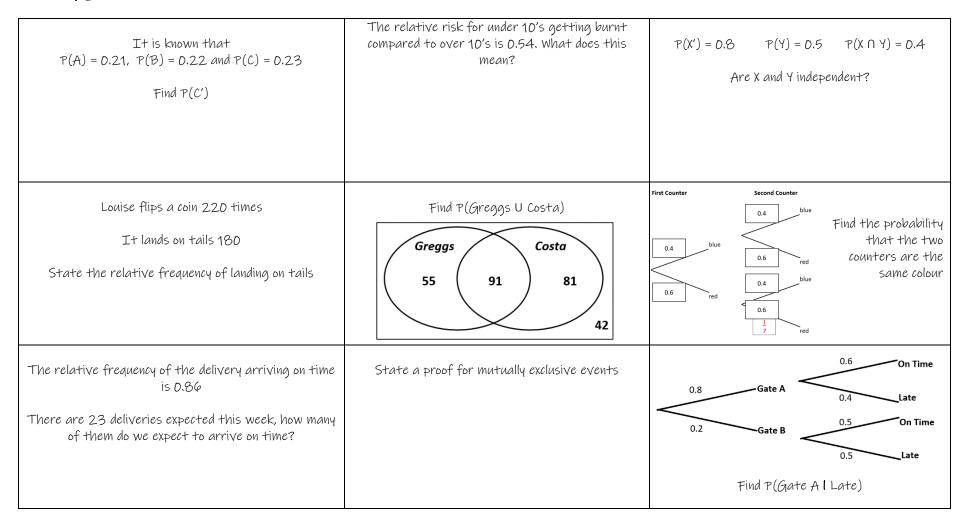
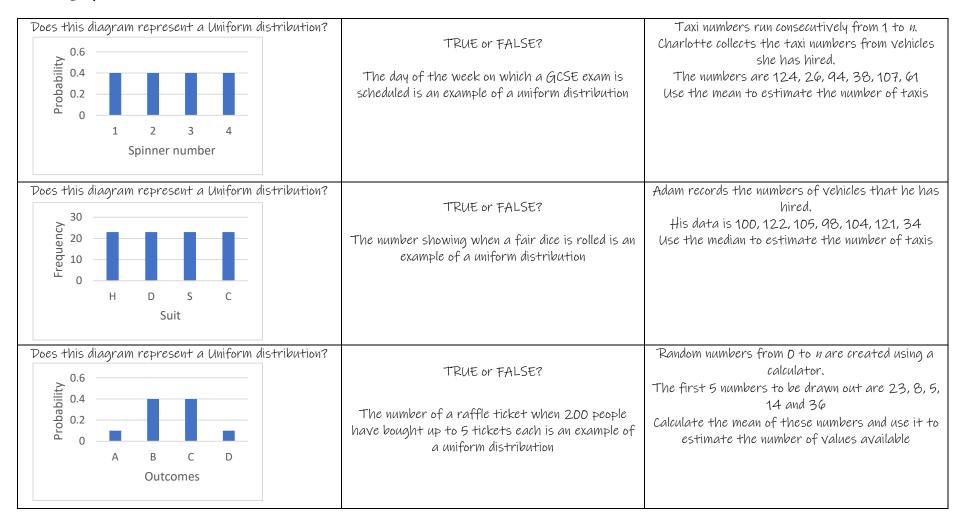
Week 1.1

The spinner is spun The relative frequency of catching the disease P(X) = 0.7P(Y') = 0.1 $P(X \cup Y) = 0.07$ from Sinead is 0.18 Are X and Y mutually exclusive? Of the 150 people who came into contact with State P(odd) Sinead, how many of them do you expect to catch the disease? No Advanced Advanced It is known that P(A) = 0.2P(B) = 0.3 $P(A \cap B) = 0.5$ Training Training P(A) = 0.43, P(B) = 0.58 and P(C) = 0.27% of drives who Are X and Y independent? have exceeded 25% 1170 Find P(B') the speed limit Calculate the relative risk of exceeding the speed limit for the not advanced trained drivers compared to the advanced trained drivers. First Counter Second Counter Charlotte flips a coin 600 times Find P(Highlighter) Find the probability It lands on tails 280 times of both counters Felt Tip Highlighter being different State the relative frequency of landing on tails colours 0.5 0.1 0.1 0.7

Week 1.2



Week 2.1



Week 2.2

Does this diagram represent a Uniform distribution? 0.6 Output Output	TRUE or FALSE? The colour shown when a card from a pack of 52 is drawn an example of a uniform distribution	Luca records the numbers of vehicles that he has hired. His data is 22, 51, 47, 13, 26, 65, 61, 8 Use the median to estimate the number of taxis
Does this diagram represent a Uniform distribution? 30 20 10 A B C D Outcomes	TRUE or FALSE? The colour of a marble chosen from a bag with 3 red, 2 blue and 10 white marbles is an example of a uniform distribution	Random numbers from 0 to 11 are created using a calculator. The first 5 numbers to be drawn out are 12, 18, 50, 4, 39 Calculate the mean of these numbers and use it to estimate the number of values available
The number of red counters when drawn from a bag of 3 red, 5 blue and 2 green is recorded What is n?	The number of red counters when drawn from a bag of 3 red, 5 blue and 2 green is recorded What is p?	The number of red counters when drawn from a bag of 3 red, 5 blue and 2 green is recorded What is q?

Week 3.1

Does this diagram represent a Uniform distribution? 0.3 0.2 0.1 1 2 3 4 5 Outcomes	TRUE or FALSE? The price of a chocolate chosen from a shop which sells chocolate ranging from 10p – 95p is an example of a uniform distribution	Random numbers from 0 to n are created using a calculator. The first 5 numbers to be drawn out are 73, 74, 15, 28, 37 Calculate the mean of these numbers and use it to estimate the number of values available
The number of red counters when drawn from a bag of 10 red, 10 blue and 10 green is recorded What is n?	The number of red counters when drawn from a bag of 10 red, 10 blue and 10 green is recorded What is P?	The number of red counters when drawn from a bag of 10 red, 10 blue and 10 green is recorded What is q?
I flip a coin 3 times How many different ways can I get exactly 3 heads?	I flip a coin 10 times How many different ways can I get exactly 3 heads?	I flip a coin 50 times How many different ways can I get exactly 3 heads?

Week 3.2

The number of red counters when drawn from a bag of 5 red, 12 blue and 3 green is recorded What is n?	The number of red counters when drawn from a bag of 5 red, 12 blue and 3 green is recorded What is P?	The number of red counters when drawn from a bag of 5 red, 12 blue and 3 green is recorded What is q?
I flip a coin 6 times How many different ways can I get exactly 3 heads?	I flip a coin 15 times How many different ways can I get exactly 3 heads?	I flip a coin 30 times How many different ways can I get exactly 3 heads?
X~B(20,0.45) What is n?	X~B(20,0.45) What is p?	X~B(20,0.45) What is q?

Week 4.1

I flip a coin 9 times How many different ways can I get exactly 3 heads?	I flip a coin 21 times How many different ways can I get exactly 3 heads?	I flip a coin 40 times How many different ways can I get exactly 3 heads?
X~B(40,0.32) What is n?	X~B(40,0.32) What is p?	X~B(40,0.32) What is q?
X~B(10,0.51) Find P(X = 3)	State the Binomial Formula	X~B(15,0.37) Find P(X = 5)

Week 4.2

X~B(35,0.18) What is n?	X~B(35,0.18) What is p?	X~B(35,0.18) What is 9?
$X \sim B(8,0.87)$ Find $P(X = 7)$	State the Binomial Formula	X~B(20,0.08) Find P(X = 3)
X~B(10,0.17) Find P(X ≤ 2)	X~B(7,0.25) Find P(X < 2)	X~B(12,0.36) Find P(X ≥ 11)

Week 5.1

X~B(15,0.838) Find P(X = 8)	State the Binomial Formula	X~B(5,0.91) Find P(X = 4)
X~B(12,0.16) Find P(X ≤ 1)	X~B(20,0.05) Find P(X < 1)	X~B(16,0.74) Find P(X ≥ 15)
Does this diagram represent a Normal Distribution?	Fill in the blanks: For data which is normally distributed90 of the data values lie within 2 standard deviations of the mean?	Estimate the mean from the normal distribution

Week 5.2

X~B(8,0.35) Find P(X < 2)	X~B(25,0.82) Find P(X ≥ 24)
Fill in the blanks:	Estimate the mean from the normal distribution below
For data which is normally distributed	-7 -6 -5 -4 -3 -2 -1
A Normal Distribution is used to represent the	A Normal Distribution is used to represent the
results of a test out of 100 for students in 11B	results of a test out of 100 for students in 11B
The mean score is known to be 78 with a standard	The mean score is known to be 78 with a standard
deviation of 2.5	deviation of 2.5
Between which two scores are 95% of the marks between?	Between which two scores are 99.5% of the marks
	Find P(X < 2) Fill in the blanks: For data which is normally distributed

Week 6.1

Does this diagram represent a Uniform distribution? 15 10 10 1 2 3 4 5 Outcomes	X~B(22,0.8) What is n?	State the Bibnomial Formula
The number of red counters when drawn from a bag of 8 red, 8 blue and 4 green is recorded What is n?	X~B(9,0.81) Find P(X = 8)	Does this diagram represent a Normal Distribution?
I flip a coin 5 times How many different ways can I get exactly 4 heads?	X~B(11,0.31) Find P(X ≤ 1)	A Normal Distribution is used to represent the results of a test out of 70 for students in 11C The mean score is known to be 45 with a standard deviation of 1.8 Between which two scores are 95% of the marks between?

Week 6.2

Random numbers from 0 to n are created using a calculator. The first 5 numbers to be drawn out are 23, 45, 18, 90 and 47 Calculate the mean of these numbers and use it to estimate the number of values available	Fill in the blanks: For data which is normally distributed90 of the data values lie within 1 standard deviation of the mean?	X~B(30,0.92) Find P(X ≥ 29)
The number of red counters when drawn from a bag of 6 red, 15 blue and 9 green is recorded What is 9?	X~B(80,0.96) What is q?	Estimate the mean from the normal distribution below
I flip a coin 35 times How many different ways can I get exactly 20 heads?	X~B(19,0.58) Find P(X = 10)	A Normal Distribution is used to represent the results of a test out of 80 for students in 11D The mean score is known to be 52 with a standard deviation of 3.1 Between which two scores are 99.5% of the marks between?