Single Point Binomials v. Interval Binomials

•	Single Point Binomials
	o By hand
	We use the probability distribution function!
	 By calculator> Binompdf
	Components to know
	•=
	•=
	•=
•	Interval Binomials
	o By hand
	 We STILL use the probability distribution function BUT we use it for
	wanted in the interval!
	 By calculator> Binomcdf
	 This calculator function calculates and includes every point in an
	interval that resembles
	Components to know
	•=
	•=
	•=

- Other formulas for Binomial Random Variable
 - o Mean

	0	Standard Deviation
		Practice
1.	choco day, o batch	er considers a cookie batch successful when 3 quarters of the batch of plate chip cookies has no less than 5 chocolate chips in each cookie. Each in average, the baker makes 8 batches of chocolate chip cookies (with each having 24 cookies) and only 6 are usually considered successes. Solve the ions below by hand.
	a.	What is the probability of success and failure? (Hint: pay attention to the batches and not the number of cookies.)
	b.	Write the probability function.
	c.	What is the probability of 5 successes?
	d.	What is the probability of more than 2 but at most 4 successes?
	e.	What is the probability of less than 2 or of 7 successes?

o Variance

	f.	What is the mean, variance, and standard deviation?
2.	receiv 84% o Wings	Vingstop franchise expects that every order is completed after 12 minutes from ring the order. On average, the Stephenville location meets expectations on of all orders received each day. Solve the questions below by calculator if stop in Stephenville had a total of 356 orders throughout the day. What is the probability of success and failure?
	b.	Write the probability function.
	c.	What is the probability of 281 successes?
	d.	What is the probability of at most 300 successes?
	e.	What is the probability of more than 250 successes but less than 320 successes?

f. What is the probability of less than 108 or more than 280 successes?
g. What is the mean, variance, and standard deviation?