

Monday, January 28, 2019

- Warm-up

- The duration of a flight between two cities is normally distributed with a mean of 3.6 hours and a standard deviation of 0.15 hour. What is the probability that the flight will be less than 3.8 hours?

Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

- Talk about tests

- Labs to prepare for chapter 18

The experiment

- We are beginning to look at distributions of **sample** proportions.
- We will be experimenting with Hershey's Kisses and when dropped if they land "point up" or on their side
- There will be 3 stages to our experiment.

Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

STAGE ONE



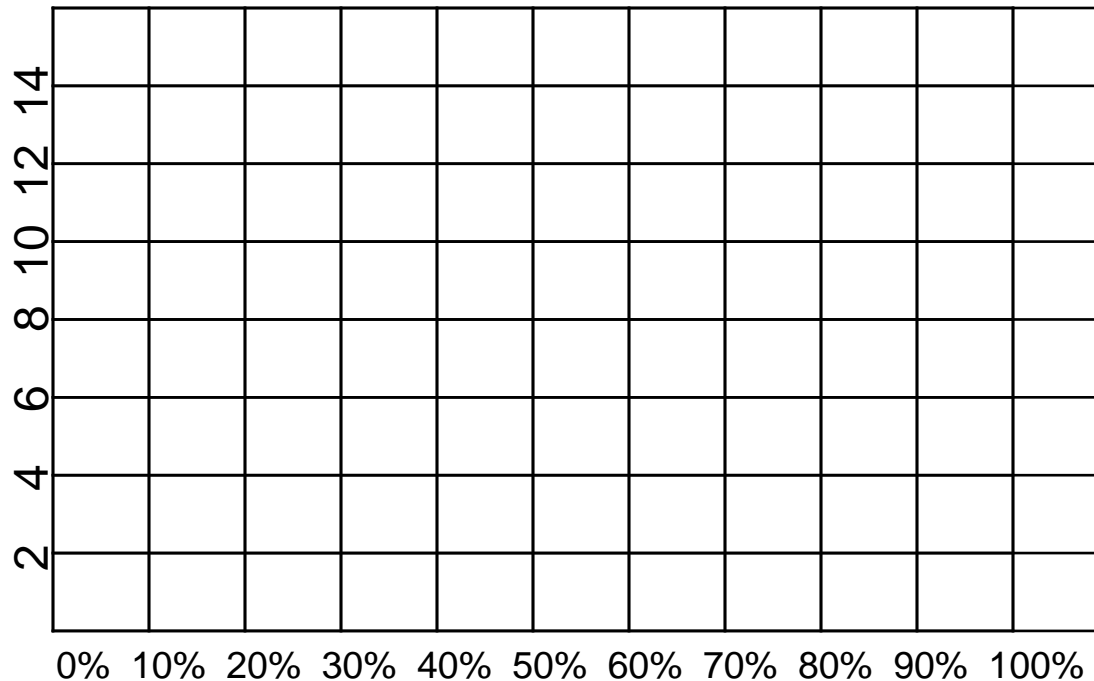
Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

Data – Stage One



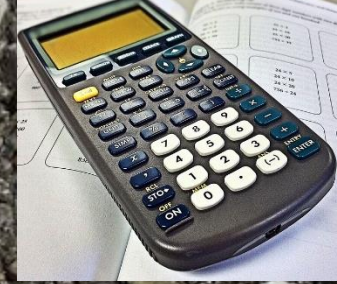
Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

STAGE TWO



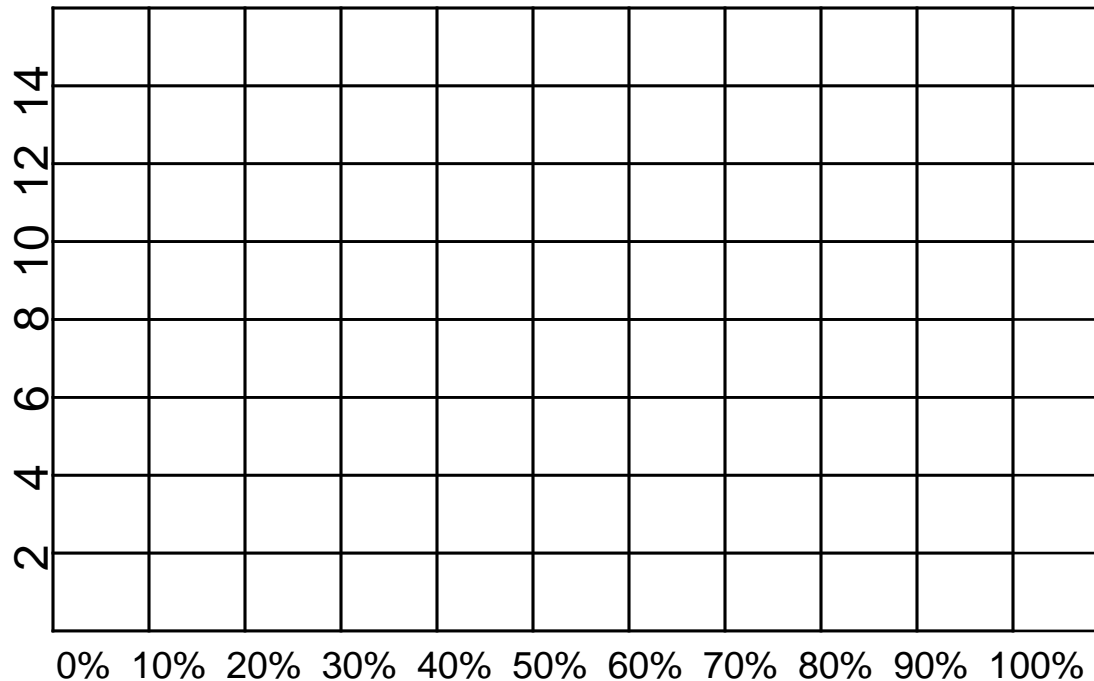
Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

Data - Stage Two



Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.

STAGE THREE

Objectives

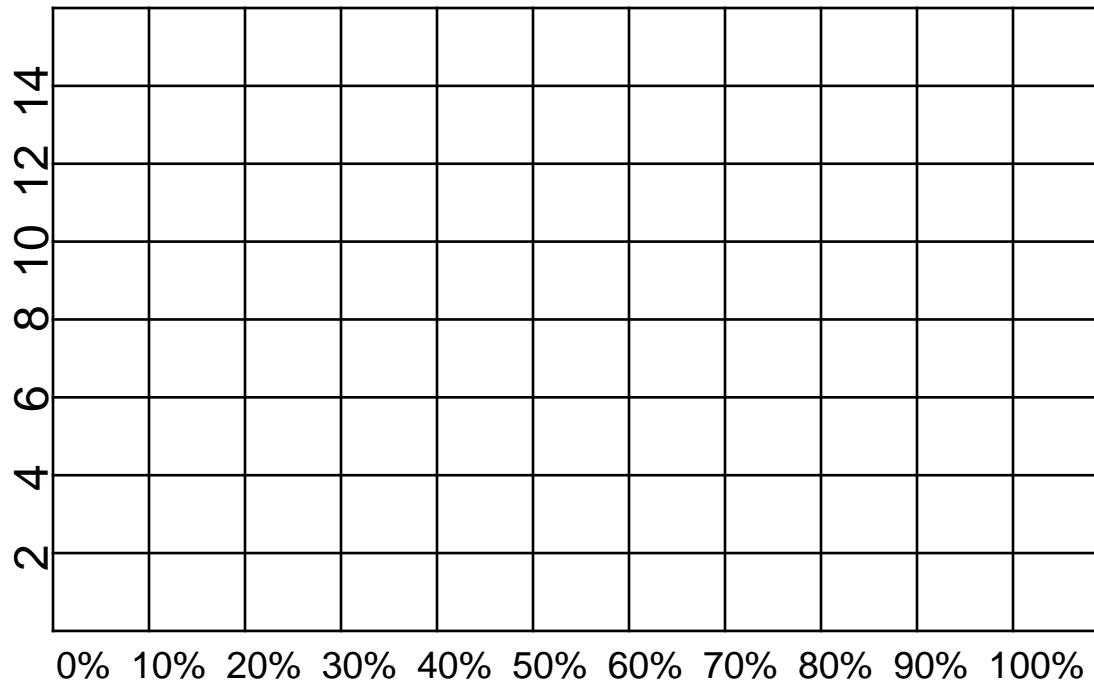
Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

Language: I will explain my reasoning in a clear manner and listen to others.



Data – Stage Three



Objectives

Content: I will examine random events and analyze the data from them.

Social: I will participate in the class activity well.

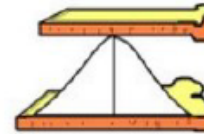
Language: I will explain my reasoning in a clear manner and listen to others.

AP
Statistics
Unit 8:
Central
Limit
Theorem
Chapter 18

28 18.1 Intro to CLT HW: notes Chapter 18	29 18.2 CLT notes & definitions HW: p 432 (1-4)	30 18.3 Sampling Distributions with proportions Start Investigative Task HW: p 434 (15-20)	31	1 18.4 Sampling Distributions with means HW: p 436 (37-40)
4 18.5 Finish Investigative Task	5 Start Unit 9 ALL Unit 8 HW Due with Investigative Task	6	7	8

The Central Limit Theorem states that with a large sample size the sampling distribution of the mean is approximately normal.

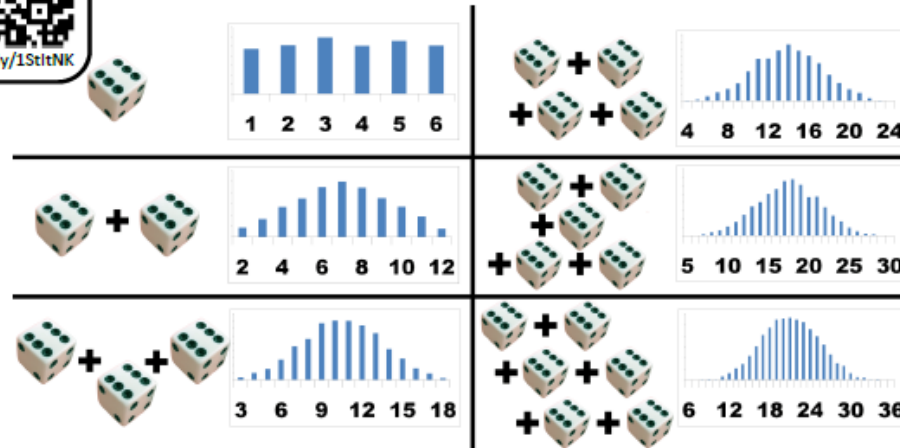
Statistic	Standard Deviation of Statistic
Sample Mean	$\frac{\sigma}{\sqrt{n}}$
Sample Proportion	$\sqrt{\frac{p(1-p)}{n}}$



THE CLT. SADLY NOT AS DELICIOUS AS THE BLT.

Fun Video—
Central Limit Theorem

<http://bit.ly/1StitNK>



This Unit

- We will be studying Chapter 18

Homework

- 5 BLG ideas plus the definition of "central limit theorem"