Math 1316:
Survey of Contemporary Mathematics

Course Sample
Welcome to
MATH 1316
Survey of Contemporary Mathematics

New to the course? Click the Getting Started and Syllabus links at left and review the information carefully.

Returning to the course? Click the Course Content and resume where you left off.

Note: Please recall, as stated in the Syllabus, you may not submit more than one chapter per week (two weeks is recommended) through TRACS.
Course Description

Objectives

Course Materials

Assessments and Grading

How to be Successful in this Course
Course Content

Getting Started Quiz
- Chapter 8 Consumer Math
- Chapter 14 Graph Theory
- Midcourse Exam Information
- Chapter 11 Probability
- Chapter 12 Statistics
- Chapter 13 Voting Methods
- Final Exam Information

Math 1316 Meet Dr. Jones

Introduction

Get Started
Accessing Videos in Connect Math

Each section of this course will include video lectures accessed from Connect Math as well as videos of example problems—some from Connect Math and others linked from this page. The video lecture for this section covers several aspects of percents, including converting between fractions, decimals and percents and, solving applications involving percents.

You can access Connect Math through TRACS. To do so, Click on MH Campus > Click here to launch this tool in a new window > Connect Math > and then click the appropriate assignment under the Upcoming Assignments list. Once you have opened the assignment, click the appropriate video.

To look at the first video, in Connect Math select the assignment 8.1 Videos, then select Chapter 8 Section 1 Lecture: Percents to watch an online lecture on percents which includes examples.

Take notes (in your Homework Journal), just like you would in a face-to-face classroom. Remember that, unlike in the in the traditional classroom, you can re-watch parts you didn’t catch the first time.

Calculations Involving Percents

There are many ways to approach percents. Consider a whole “something” — this is the base. The part (or amount) is a percent of the base. We can calculate the percent by dividing the part by the base.

\[
Percent = \frac{Part}{Base} < 100\%
\]

A common misconception is that the part is always smaller than the base in which case the percent is less than 100% (as shown above). Sometimes the part is bigger than the base. Think about a growing population. For instance, the population of San Marcos (which is growing) was almost 45,000 people in 2010 and and almost 50,000 in 2014. If the population in 2010 is the base and the population in 2014 is the part (or amount) then the percent calculated above would be greater than 100%.
To see some examples on how to make these conversions, return to 8.1 Videos in Connect Math and view the following videos:

- Chapter 8, Section 1: Exercise 26: Percent to decimal
- Chapter 8, Section 1: Exercise 34: Convert Percent to Fraction (For this one, be sure to recognize that 12.5 = 25/2)

Application problems involving percents

Return to Connect Math 8.1 Videos. Then watch the following video showing how percents are used in solving an application to find the cost of a laptop.

- Chapter 8, Section 1: Exercise 53: Solve a Percent Application (find the cost of a laptop)

So, what if a store lets you use an advertised percent discount along with a coupon giving you another percent discount, can you just add these two percents to determine your total discount? In other words, if you are offered a coupon for 30% off and the store has a sign saying 40% off, is that 70% off? Click and watch the video below to find out.

Open In new window

Are Percent Discounts Summative?
All homework is done in Connect Math. You will need to purchase an access code. This can be done at connectmath.com, which you should be able to access by selecting MHCampus on the left of the screen. You will need a credit/debit card to pay for this. The course Id is: WEHTQ-V5GME. Connect Math also contains your ebook and other resources such as videos.

In Connect Math, do assignment Homework #8.1.

Be sure to work the problems in your homework journal and take notes as necessary.
ARE YOU READY?

http://www.correspondence.txstate.edu/application.html