

Percent Of Something

By: Dr. Johnson
School: Edstar Analytics Math

What Student Will Need:
Computer, phone, or any device with internet access An account in the self-directed learning resource, connected to me as the teacher An account in the communication resource, connected to me as the teacher PDF Handout (created from this lesson form)
Lesson Objective:
The objective of this lesson is for students to learn to use the concept of equivalent fractions to understand percents.
Details:
I will use this handout and distribute it to students so they can complete the lesson. Students will do the self-directed learning and assessment in Khan Academy, using their accounts that are connected to the teacher. They will respond to a prompt in Flipgrid using their accounts. The prompt is designed to point out a problem-solving skill. I will select some videos in Flipgrid to share with the class. I will be able to monitor progress in Khan Academy.
Review:
<u>Review Content</u> Watch this presentation to review some math that will help you better understand about how to compute percents. Some links have a Youtube version of the same thing in case you can't connect to the other. Youtube version
Lesson Flow:
<u>Lesson Content</u> This short 3 minute presentation explains the meaning of fractional parts and how that relates to percents. This will lead to self-directed learning activities in finding equivalent fractions. This is to help the students understand that determining a percent means determining what equivalent fraction would have 100 in the denominator. <u>Youtube version</u> Instructions for Student: Watch this short video, which will illustrate how percents are similar to an equivalent fraction with 100 in the denominator. <u>Self-Directed Resource</u> These Khan Academy exercises call for finding the missing number in equivalent fractions. At least one of them includes fractions with 100 in the denominator. The purpose of this is to practicing working with equivalent fractions and to help students understand that percents are not a totally new animal. They are a special case of something they already know. This lesson has a focus on equivalent fractions, and attempts to help the students understand that figuring a percent is a special case of equivalent fractions. Instructions for Student: Log in to your Khan Academy account and do the exercises in this link, to find the missing numbers in equivalent fractions. Some of them are out of 100, which would be like finding a percent.

Communication With Student

This prompt in Flipgrid is designed to help students identifying and using the problem-solving skill of seeing how something new is like something they already know.

This can be accessed using the password 12345. Once a classroom roster in a Flipgrid account is set up, have the students use their login and password. Then you can give them feedback and display some of them.

Explain in your own words how figuring out what percent 7 out of 10 is, is like solving for a missing number in an equivalent fraction.

Instructions for Student:

A problem-solving skill is to recognize when something new is similar to something you already know.

Click the Flipgrid link and enter your Flipgrid ID for class. If you don't have an ID, use 12345.

Additional Support

Instructions for Student:

Watch this short video, which will help you visualize equivalent fractions.

Deep Dive/Challenge

Instructions for Student:

Complete these exercises in Khan Academy that use the number line to identify equivalent fractions.

Collaborate with Teachers:

Collaboration with Teachers

This is the Edstar Analytics discussion and resource sharing forum.

Assessment Tool:

Assessment Tool

Complete this assessment in Khan Academy. If you successfully complete it, keep going.

Additional Links:

The Meaning of Percents