

FOUNDATIONS OF REAL WORLD MATH: SESSION 2

Course Description

This course is a Pre-Algebra course which provides students with methods to strengthen their foundations of Pre-Algebra skills and concepts in order to prepare them for Algebra 1. This course is the second half of Foundations of Real World Math and focuses on ratios, proportions, percentages, stem and leaf plots, bar charts, box and whisker plots, pie charts, pictographs, and measures of central tendency for a data set. This course will culminate with a Final Exam. This course is for students that have taken and successfully passed the first half of Foundations of Real World Math.

Prerequisite

Foundations of Real World Math: Session 1

Credit Requirement Area

Math

Learning Objectives

Students will study and master the following concepts:

- use ratio concepts to solve problems;
- calculate unit prices and rates;
- apply the processes of solving a proportion;
- and analyze proportional relationships and use them to solve real-world and mathematical problems.
- identify the basic components of a percent problem;
- convert between percent, decimal, and fraction notation;
- use proportional relationships to solve multi-step percent problems; and
- apply percent concepts in various practical applications.
- determine the mean, median, mode, and range from a given set of data;
- represent and interpret data in a bar graph;
- represent and interpret data in a line graph;
- represent and interpret data in a circle graph;
- represent and interpret data in a bar graph; and
- represent and interpret data in a box-and-whisker plot.
- represent and interpret data in a pictograph;

Suggested Weekly Schedule

Week	Graded Activities	Suggested Due Date	% Points
1	Activity 1: Introduction to Ratios	Monday of Week 1	14.3%
	Activity 2: Equivalent Ratios	Monday of Week 1	14.3%
	Activity 3: Finding Rates and Prices	Tuesday of Week 1	14.3%
	Activity 4: Introduction to Proportions	Wednesday of Week 1	14.3%
	Activity 5: Proportions Word Problems	Wednesday of Week 1	14.3%

Week	Graded Activities	Suggested Due Date	% Points
	Activity 6: Applications of Proportions	Thursday of Week 1	14.3%
	Week 1 Reflection	Friday of Week 1	14.2%
Week 1 Total Percentage Towards Final Grade			17%
2 & 3	Activity 7: Convert Decimals to Percents	Monday of Week 2	10%
	Activity 8: Convert Percents to Decimals	Tuesday of Week 2	10%
	Activity 9: Convert Percents to Fractions	Wednesday of Week 2	10%
	Activity 10: Convert Fractions to Percents	Thursday of Week 2	10%
	Activity 11: Percent Problems 1	Friday of Week 2	10%
	Activity 12: Percent Problems 2	Monday of Week 3	10%
	Activity 13: Percent Applications	Tuesday of Week 3	10%
	Activity 14: Percent Increase or Decrease	Wednesday of Week 3	10%
	Activity 15: Introduction to Order of Operations	Thursday of Week 3	10%
	Week 2 & 3 Reflection	Friday of Week 3	10%
Week 2 & 3 Total Percentage Towards Final Grade			34%
4 & 5	Activity 16: Mean, Median, Mode, and Range 1	Monday of Week 4	11.1%
	Activity 17: Mean, Median, Mode, and Range 2	Tuesday of Week 4	11.1%
	Activity 18: Stem and Leaf Plots	Wednesday of Week 4	11.1%
	Activity 19: Line Graph	Thursday of Week 4	11.1%
	Activity 20: Bar Graph	Friday of Week 4	11.1%
	Activity 21: Box Plots	Monday of Week 5	11.1%
	Activity 22: Pie Charts	Tuesday of Week 5	11.1%
	Activity 23: Pictograph	Wednesday of Week 5	11.1%
	Week 4 & 5 Reflection	Thursday of Week 5	11.2%
Week 4 & 5 Total Percentage Towards Final Grade			34%
6	Foundations of Real World Math: Session 2 Final Exam	Friday of Week 6	100%
Week 6 Total Percentage Towards Final Grade			15%
WEIGHTED TOTAL			100%