

Preparing for Pre-Algebra

Mastering Fractions, Decimals and Percents

Grades:	5th – 7th
Day of Week:	Thursday
Time of Class:	9:00 am – 10:30 am ET
Length of Class:	30 weeks
Semester:	Full Year
Tuition:	\$600.00
Prerequisite:	Students MUST know their multiplication tables (1-10), addition facts (1-20) and subtraction facts (1-20) by HEART. When it comes to these facts, they should be human calculators.

Please note: You can register for each Preparing for Pre-Algebra (Fractions, Decimals, and Percents) separately. Please look for that option!

Class Dates:

Week 1: Week of September 11

Week 2: Week of September 18

No classes from September 25 – October 6, 2023 – Jewish Holidays

Week 3: Week of October 9

Week 4: Week of October 16

Week 5: Week of October 23

Week 6: Week of October 30

Week 7: Week of November 6

Week 8: Week of November 13

No classes from November 20 – 24 – Thanksgiving Holidays

Week 9: Week of November 27

Week 10: Week of December 4

Make-Up Days: Week of December 11

Time off for Christmas and New Year's! Enjoy the holidays!

Week 11: Week of January 8

Week 12: Week of January 15

Week 13: Week of January 22

Week 14: Week of January 29

Week 15: Week of February 5

Week 16: Week of February 12

Week 17: Week of February 19

Week 18: Week of February 26

Week 19: Week of March 4

Week 20: Week of March 11

Make-Up Days: Week of March 18

Please note that there are two breaks during this year's Spring term, for the observances of Eid and Passover.

Week 21: Week of March 25

Week 22: Week of April 1

Week of April 8: No Classes due to Eid (Muslim) Holiday – Eid Mubarak to our Muslim families!

Week 23: Week of April 15

Weeks of April 22 and April 29: No Classes – Spring Break – Happy Passover to our Jewish families!

Week 24: Week of May 6

Week 25: Week of May 13

Week 26: Week of May 20

Week 27: Week of May 27

Week 28: Week of June 3

Week 29: Week of June 10

Week 30: Week of June 17

Make-Up Days: Week of June 24

Instructor's Name:

Instructor's Email:

Instructor's Phone:

Jonathan Meola

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Description of Class:

Fractions, decimals and percents are HUGE, and often intimidating topics; however, it is NEEDED in every part of daily life. This 30-week course will take a slow pace with the mindset of understanding all ways for computing all types of fractions, decimals, and percents so that they will be ready for pre-algebra.

Class Approach:

During class students can expect to participate in a warm-up activity, have an opportunity to ask questions on the previous homework assignment, and learn new material while completing problems alongside me... The “I do, we do, you do” approach is used for the instruction of new material. Completion of problems will gradually shift from the instructor modeling how to complete the problems to the student completing problems on their own.

Textbook:

Note packet is included for each lesson.
Students MUST have this in front of them for each class.

Additional Supplies/Resources Needed:

- Access to a computer
- Internet Access
- Printer
- Printer Paper
- Printer Ink

Weekly Homework:

Approximately one - two hours a week; assignments will reinforce what students learned in class.

Homework Policy:

Homework will be due prior to class for learners to receive full credit unless arrangements have been made in advance.

Additional Policies:

- Honesty.
- Integrity.
- Respect.

Grading Scale:

- 100-91: A
- 90-80: B
- 79-70:C

- 69-66: D
- 65 and below - No effort: F

Anticipated Weekly Course Schedule

Week	Topic
Week 1	What is a Fraction? <ul style="list-style-type: none"> ● Fraction Vocabulary ● Naming Fractional Parts ● Adding Fractions Parts ● Fractions in World Problems ● Fraction Vocabulary ● Reading and Writing Fractions
Week 2	Fractions Greater than One Improper Fractions Comparing Fractions Equal Fractions Find Equal Fractions
Week 3	Factoring Common Factors Finding the Greatest Common Factor Simplifying Fractions Simplifying Fractions with Larger Numbers Test on Weeks 1, 2 and 3
Week 4	Multiplying Fractions Multiplying Fractions and Simplifying World Problems
Week 5	Reciprocals Dividing Fractions Word Problems Text on Weeks 4 and 5
Week 6	Adding and Subtracting Fractions with Common Denominators Least Common Denominator Adding and Subtracting Fractions with Different Denominators Word Problems
Week 7	Finding the Least Common Denominator of Three Fractions Adding Three Fractions with Different Denominators
Week 8	Adding, Subtracting, Multiplying, and Dividing with Different Denominators Test on Weeks 6, 7 and 8
Week 9	Renaming Fractions as Whole Numbers or Mixed Numbers Simplifying Mixed Numbers Multiplying Fractions with Whole Numbers Word Problems
Week 10	Renaming Mixed Numbers as Fractions Multiplying Mixed Numbers Dividing with Fractions – Whole and Mixed Numbers Test on Week 9 and 10

Week	Topic
Week 11	Decimal Numbers Place Value and Decimals Expanded Notation (tenth, hundredths, thousandths) Zero as a Placeholder
Week 12	Comparing Decimals (tenth, hundredths, thousandths) Adding Decimals (tenths, hundredths, and thousandths) Important Decimal Fractions Test on Class 1 and 2
Week 13	Zero as a Placeholder in Addition Adding Decimals and Whole Numbers Subtracting Decimals and Whole Numbers Simplifying Decimal Numbers
Week 14	Multiplying Decimals and Whole Numbers Dividing Decimals and Whole Numbers Combining Addition, Subtractions, and Multiplication Test on Class 3 and 4
Week 15	Dividing a Decimal Number by a Whole Number Zero as the Placeholder in Division Different Ways to Express Remainders Repeating Decimals
Week 16	Dividing by a Decimal Number Unit Pricing Word Problems Test on Class 5 and 6
Week 17	Review on Adding, Subtracting, Multiplying and Dividing Decimals
Week 18	Checking Accounts and Decimals Rounding Off Unit Pricing Estimating
Week 19	Averages Graphing and Decimals Averages in Sports Test Averages
Week 20	Length in the Metric System Scientific Notation Extending Scientific Notation Word Names for Large Numbers with Decimals

Week	Topic
Week 21	Percent Means Hundredths All and None Percents One Half and One Fourth as Percents 100% Makes All
Week 22	Floor Plans Recommended Daily Allowances (RDA) of Vitamins Double and Triple as Percents Practice with Percents One Tenth as a Percent

Week	Topic
	One Hundredths as a Percent
Week 23	Practice with 1% and 10% Finding a Percent of a Number Estimating Percents Percent is Based off of 100 Test for Weeks 1, 2 and 3
Week 24	Multiplying and Dividing by One to Make Equal Fractions Using Cross Products to Make Equal Fractions Writing a Percent Statement as a Fraction Problem
Week 25	Using Fractions to Solve Percent Problems Election Results Story Problems
Week 26	Writing Percents as Fractions Percents with Mixed Numbers and Fractions Wastebasketball Story Problems
Week 27	Writing Fractions as Percents Everyday Fractions as Percents Using Everyday Percents Percent Sense or Percent Nonsense Test for Weeks 4, 5, 6 and 7
Week 28	Hundredths as a Decimal Percents as a Decimals Writing Decimals in Simplest Form Writing Money Amounts Percents as Decimals in Simplest Form
Week 29	Multiplying Decimal Numbers Writing a Percent Problem as a Decimal Multiplication Problem Using Decimal Numbers to Solve Percent Problems A 10% Shortcut A 1% Shortcut 1% and 10% Problems
Week 30	Estimating Percents Story Problems Using Percents in Retail Tax and Savings on a Calculator Leaving a Tip at a Restaurant Test on Weeks 8, 9 and 10