**1. Amatrol Learning Unit:** [**https://amatrol.com/coursepage/mathematics-training/**](https://amatrol.com/coursepage/mathematics-training/)

**Fractions, Decimals, Percentages and Basic Geometry**

**Model Name: Mathematics Multimedia Courseware**

**Model Number: MXMA101**

**Basic Math**

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| **Segment 1 - Basic Math Terms and Concepts**  Objective 1 - Describe Math as a Language  Objective 2 - Describe How Number Lines Are Used in Math  Objective 3 - Describe the Parts of a Math Problem  Objective 4 - Define Integers, Fractions, Decimals, and Variables  Objective 5 - Describe Math Terms Associated with Addition and Subtraction  Objective 6 - Describe Math Terms Used with Multiplication and Division  Objective 7 - Describe Commonly Used Math Terms  **Segment 2 - Working with Whole Numbers**  Objective 8 - Describe the Four Basic Operations with Integers  Objective 9 - Describe the Order of Operations  Objective 10 - Describe the Three Properties of Operations  Objective 11 - Define Variables and Explain How They Are Used in Equations  Objective 12 - Describe How to Solve for Inequalities |

**Fractions, Decimals, and Percentages**

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| **Segment 1 - Fractions and Decimals**  Objective 1 - Define a Fraction and Describe Its Components  Objective 2 - Describe How to Reduce a Fraction  Objective 3 - Explain How to Add and Subtract Fractions  Objective 4 - Explain How to Multiply and Divide Fractions  Objective 5 - Describe the Decimal System  Objective 6 - Explain How to Add, Subtract, Multiply and Divide Decimals  Objective 7 - Describe How to Estimate and Round Decimals  Objective 8 - Describe How to Convert Decimals and Fractions  **Segment 2 - Percentage, Average, and Ratio**  Objective 9 - Define Percentages and Provide Examples of Where They Are Used  Objective 10 - Describe Three Ways to Find Percentages  Objective 11 - Define Averages and Describe Three Types  Objective 12 - Define Ratios and Describe How They Are Expressed |

**2. Bits, bytes, and nibbles.**

<https://learn.sparkfun.com/tutorials/binary/bits-nibbles-and-bytes#:~:text=Each%201%20or%200%20in,buzzword%20when%20working%20in%20binary>.

<https://www.quora.com/What-are-bits-bytes-and-nibbles-used-for>