

Math 7, Unit 3:

Proportional Reasoning and Financial Literacy

Our Learning Goals:

We will...

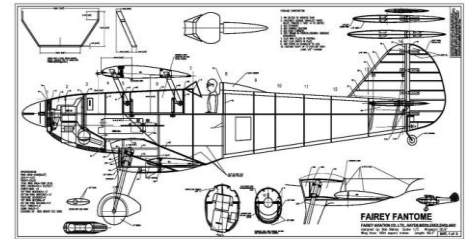
- ✓ Describe relationships between two quantities.
- ✓ Summarize relationships among data using percentages. make predictions about situations utilizing a constant rate of change.
- ✓ Understand that proportions are statements of equality.
- ✓ Calculate sales and income tax.
- ✓ Understand components of personal budgets and calculate percent of each category.

Why do we study this?

- ❖ When purchasing music for an electronic device, we can use ratio and proportion to compare one company's cost to another. Monthly rates will depend on each company's monthly fee, the charge per song, and the number of songs you download during a given month.
- ❖ We also need ratios and proportions to modify a recipe to accommodate for the amount of ingredients we have on hand. If we only have half of the chocolate chips needed for cookies, how do we size down all the other ingredients accordingly?

How we will show what we have learned...

Formative Assessments	Summative Assessments
Ongoing formative assessments during lesson and homework activities will help in monitoring learning and providing feedback for students.	Summative assessments to measure learning at the end of concepts may include the following: <ul style="list-style-type: none">• Unit Rate & Proportion Test• Unit 3 Exam (District-wide)



Sample Problem:

Sam builds model airplanes at a constant rate. He can build 5 model airplanes in 150 minutes, and 10 model airplanes in 300 minutes. How long would it take him to build 15 model airplanes?

Additional Support:

- While shopping, have conversations with your child about sales tax, discounts, and unit rate.
- Check the teacher web page for notes, activities, and assignments.
- Search the topic on the web. We recommend using Khan Academy. www.emsisd.com/khan
- Attend tutorials.