

Math 7 PreAP, Unit 6: Data Analysis and Financial Literacy

Our Learning Goals:

We will...

- ✓ Solve problems comparing how interest rate and loan length affect cost of credit.
- ✓ Explain how regular investments grow over time; calculate and compare simple and compound interest.
- ✓ Analyze and determine if a situation is financially responsible.
- ✓ Identify the benefits of financial responsibility.
- ✓ Estimate the cost of college education and devise a periodic savings plan.
- ✓ Contrast bivariate sets of data that suggest a linear relationship with sets that do not.
- ✓ Use a trend line to make predictions.
- ✓ Construct a scatterplot and describe the association between bivariate data.



Sample Problem:

If you save \$50 a month in a bank savings account that pays 2% compounded semiannually, how much will you have in your account at the end of three years?

Why do we study this?

- ❖ We develop responsible plans for investing in our future needs. This can be simply understanding and comparing what we earn and what we spend on a daily, weekly, or monthly basis. This also includes calculating repayment costs when selecting from various loan or credit card options and devising savings plans for accumulating money to pay for college.
- ❖ We use scatterplots to answer questions that drive our future decisions. We might graph data to see if the percentage of homework completed seems to impact test scores in a positive way. Or, when deciding whether or not to spend extra money on a product, we can see if there is a relationship between the price of different computers and their quality ratings.

Additional Support:

- Check the teacher's Canvas page for additional resources.
- Search the topic on the web. We recommend using Khan Academy. www.emisd.com/khan
- Attend tutorials.

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"> • Tests: Simple and Compound Interest, Scatterplots and Trend Lines, Mean Absolute Deviation • Unit 6 Exam (district wide)



Questions? Please contact your 8th grade math teacher.

--Your EM-S ISD 8th Grade Math Team