

Math 8, 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 |
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| 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