

Middle School Math Outreach Learning
Apr 20-Apr 24, 2020

8th Grade Math **Week of Apr 20-24**

If there are any questions,
please feel free to email me/us at:
jacksonm@lpisd.org

Please access your lessons in our
TEAMS folder on your computer.

Previous Lessons: Simple interest

Objectives

Objective / I Can:

- I can calculate Account balance and interest given the compound interest formula $A=p(1+r)^t$

Activities

Week 5: Compound Interest

You WILL need a calculator for this week's lesson. We suggest downloading the TI-88 emulator on your computer or using the calculate84 app on your phone.

Lesson 1 – Compound Interest

- Video Lesson - If you have access to a printer, you can print page 2. If not, you can follow along on a piece of notebook paper.
- Quizizz Homework **CODE - 0 4 7 0 3 1**
When starting your game, make sure that you are using your first and last name. Any participants without names, will NOT be counted. If you are not pleased with your grade, you may try one more time. *Your grade will be the average of your first two attempts.*

Lesson 2 – Compound Interest (continued)

- Video Lesson
- Forms Homework
When you click on your class link, you may be prompted to login to your student e-mail.

Need more help this week? Try these resources:

- Extra Video Lesson
- GetMoreMath Practice Set

*If you have access to a printer, you can print this page
to accompany lesson 1 video notes.*

If not, you can follow along on a piece of notebook paper.

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COMPOUND INTEREST

Compound interest is earned both on the _____ plus any previously earned _____. Think of it as "interest on _____".

COMPOUND INTEREST:

$$A = p(1+r)^t$$

A = _____
p = _____
r = _____
t = _____

Unlike the simple interest formula, notice that the compound interest formula gives you the _____ of the account. Explain how you can use this to find the interest earned:

Use the compound interest formula to calculate both the amount of interest earned as well as the total value of the account in 6-9.

6. A \$2,400 deposit for 8 years compounded at an annual interest rate of 4.5%.

Interest: _____
Total Value: _____

7. A \$15,000 deposit for 6 months compounded at an annual interest rate of 7%.

Interest: _____
Total Value: _____

8. A \$950 deposit for 18 years compounded at an annual interest rate of 2.21%.

Interest: _____
Total Value: _____

9. A \$3,000 deposit for 66 months compounded at an annual interest rate of 1.6%.

Interest: _____
Total Value: _____

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Academic/Instructional Support

Schedule:

Students should begin work on Monday, 4/20 and should be completed no later than Monday, 4/27 at 8 a.m.



* We are transitioning to a 4-day workweek. Math will be completed on Tuesdays with any work not completed to be worked on Thursday. If you are requiring help with your assignments, please get started early so you can get the help you need.

Office Hours

Wednesday 1-3 but available by email during regular business hours.

To Be Graded

Assignment for students to submit:

Part 1 - The students will complete and submit their **Quizizz**. You may take it more than once and the average of the first two attempts will be recorded.

Part 2 - The students will complete **Microsoft Form**. All questions on the form are required to be answered before submission. Incomplete submissions will not be accepted.

When is it due? All assignments are due no later than Monday, Apr 27th at 8 a.m.

All assignments are to be submitted electronically, except by individual arrangement.