

1  
Gaiden earns \$800 a month mowing lawns. He deposits the money in a bank account that earns an annual interest rate of 4%. How much money will he have in the account after 10 years?

4  
Olivia would like to buy new furniture for her living room. She decides to buy a sofa on credit with 9% interest compounded quarterly. She spent \$7,400. How much more money will she have paid after 4 years?

7  
Riley invests \$1,500 in a savings account that earns 6% interest compounded annually. How much money will he have in the account after 7 years?

10  
Shawn is buying a new Jet Ski for \$12,500. He is considering two credit options. Option A offers a 6 year loan with 8.5% interest compounded quarterly, while Option B offers a 5 year loan with 10% interest compounded annually. Which is the better option and how much will he save?

A) A: \$495.21  
B) A: \$573.83  
C) B: \$495.21  
D) B: \$573.83

A) \$8,000  
B) \$8,400  
C) \$8,800  
D) \$9,200  
E) \$9,600

A) \$15,415.94  
B) \$15,683.28  
C) \$15,927.56  
D) \$16,109.05  
E) \$16,349.72

A) \$1,584.60  
B) \$1,651.70  
C) \$1,706.80  
D) \$1,829.90  
E) \$1,890.00

A) A: \$495.21 raise money for charity  
B) A: \$573.83 get attention  
C) B: \$495.21 get on the news  
D) B: \$573.83 do something crazy

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# COMPOUND INTEREST

## MATH LIB ACTIVITY

Created by: ALL THINGS ALGEBRA

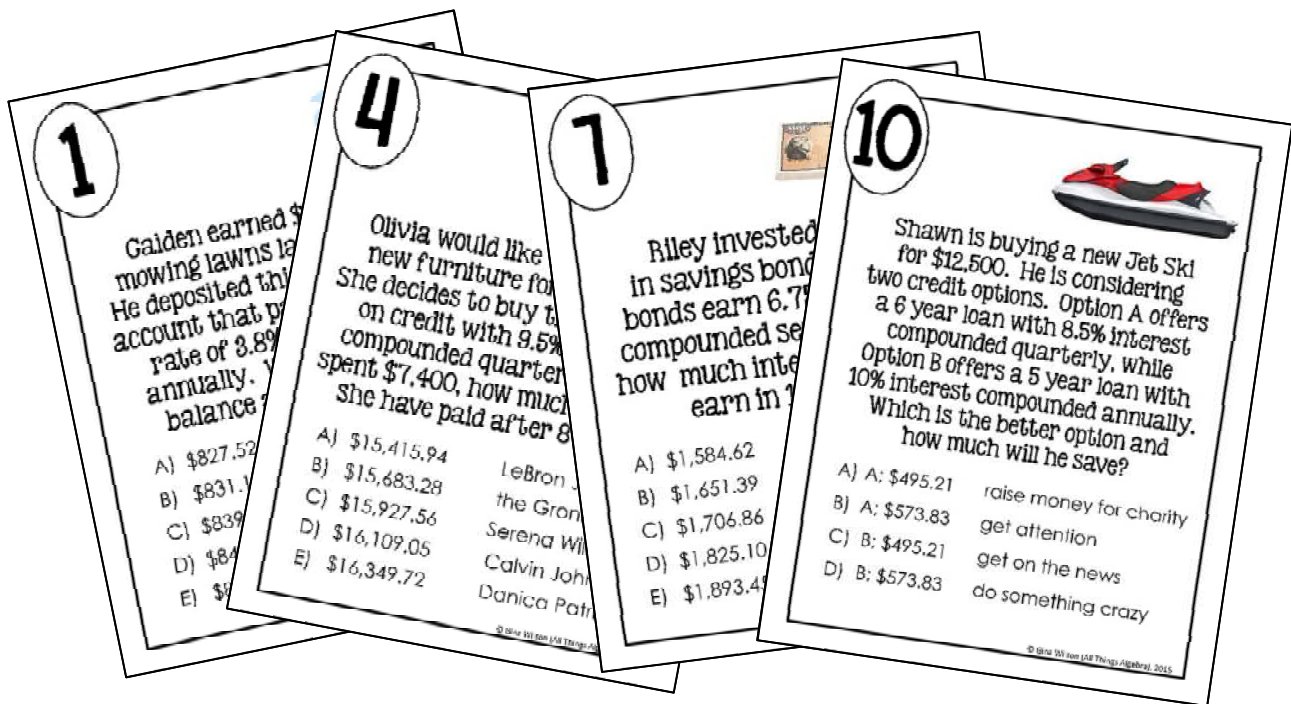
# COMPOUND INTEREST

## Math Lib!

**Objective:** To practice solving problems related to compound interest. There are more challenging problems included that will require students to read carefully, analyze more than one situation, and complete more than one step in order to solve the problem.

**Activity Directions:** Print and post the ten stations around the room. Give each student the worksheet to record their work as they travel to the stations. Group students (I typically do groups of 3) and assign to a starting problem. Set the timer for 3:30 minutes (more if needed). Students solve the problem at the station, then look for their answer and record the piece to the story. When the timer goes off, they move to the next station.

You are able to edit each slide to change the teacher name and all story elements to personalize for your students. PowerPoint is required to edit the slides. They enjoy seeing which one of their teachers is the "star" of the story!



**10 Stations & Student Worksheet Included**  
**You can change ALL story elements!**