### **WAMC Lab Template**

Math Concept(s): Future Value

Source / Text: Financial Algebra (new book: 2-7; old book: 3-7) Developed by: Kristy Bishop E-Mail: kbishop@mlsd161.org

Date: Summer Conference 2019

### The following documents are at the end of this lab:

- Lab Instructions / Student Handout(s)
- Rubric and/or Assessment Tool

### Short Description (Be sure to include where in your instruction this lab takes place):

- Classroom setting: access to technology (chromebook, desmos, graphing calculators) as needed.
- Students will be asked to identify what is the most important factor to growing wealth for the future: time, periodic investment (students need to discuss and define this term) or growth rate. The will unpack the formula and work together to understand how to use and apply it. Students will be responsible for their own learning and practice, but then work together in triads to develop a group belief on the most important factor. They will create spreadsheets and graphs, which they will interpret in context. Students will create a poster or PowerPoint presentation sharing their findings with the class and a financial advisor. The financial advisor will help determine the most articulate and accurate presentation for a reward (shhh—that's a surprise to the kids) and also share some of her/his thoughts on financial planning, the time value of money, and managing growth investments.

### Lab Plan

Lab Title: I'm gonna be rich!

### Prerequisite skills:

Prior knowledge of compound interest, arithmetic operations, exponents, use of a calculator, previously developed rubric for presentations, PowerPoint, spreadsheets

### Lab objective:

- Calculate the future value of periodic deposit investment
- Graph the future value of function
- Interpret the graph of a future value function

**Standards:** (Note SPECIFIC relationship to Science, Technology, and/or Engineering)

Mathematics K–12 Learning Standards:

Seeing Structure in Expressions A-SSE Interpret the structure of expressions

- 1. Interpret expressions that represent a quantity in terms of its context.★
- a. Interpret parts of an expression, such as terms, factors, and coefficients.
- b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret  $P(1+r)^n$  as the product of P and a factor not depending on P.

### Interpreting Functions F-IF

### Understand the concept of a function and use function notation

- 1. Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then f(x) denotes the output of f corresponding to the input x. The graph of f is the graph of the equation y = f(x).
- 2. Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.

Analyze functions using different representations

7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.

Linear, Quadratic, and Exponential Models F-LE

Interpret expressions for functions in terms of the situation they model

5. Interpret the parameters in a linear or exponential function in terms of a context.

### **Standards for Mathematical Practice:**

- Practice 1: Make sense of problems and persevere in solving them.
- Practice 2: Reason abstractly and quantitatively.
- Practice 3: Construct viable arguments and critique the reasoning of others.
- Practice 4: Model with mathematics.
- Practice 5: Use appropriate tools strategically.
- Practice 6: Attend to precision.
- Practice 7: Look for and make use of structure
- Practice 8: Look for and express regularity in repeated reasoning.

## Washington English Language Arts Standards (Common Core State Standards) - Science and Technology Literacy Standards (Grades 11-12):

 RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.

### **Educational Technology:**

3.d Students build knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions

### Leadership/21st Century Skills:

|      | 21st Century Interdisciplinary themes (Check those that apply to the above activity.)   Global Awareness   Financial/Economic/Business/Entrepreneurial Literacy   Civic Literacy   Health/Safety Literacy   Environmental Literacy     21st Century Skills (Check those that students will demonstrate in the above activity.) |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                    |                                 |  |  |  |  |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--|--|--|--|--|--|
| Cree | ARNING AND INNOVATION ativity and Innovation Think Creatively Work Creatively with Others Implement Innovations ical Thinking and Problem Solving Reason Effectively Use Systems Thinking Make Judgments and Decisions Solve Problems Inmunication and Collaboration Communicate Clearly Collaborate with Others               | INFORMATION, MEDIA & TECHNOLOGY SKILLS Information Literacy Access and Evaluate Information Use and manage Information Media Literacy Analyze Media Create Media Products Information, Communications and Technology (ICT Literacy) Apply Technology Effectively | LIFE & CAREER SKILLS Flexibility and Adaptability  Adapt to Change  Be Flexible Initiative and Self-Direction  Manage Goals and Time  Work Independently  Be Self-Directed Learners Social and Cross-Cultural  Interact Effectively with Others  Work Effectively in Diverse Teams | Productivity and Accountability |  |  |  |  |  |  |

# Applied Math Council

### <u>Teacher Preparation: (What materials and set-up are required for this lab?)</u>

Materials

• Calculators, Chromebooks, poster paper/materials, envelopes with variable info

### Set-Up Required:

 Organize the "luck of the draw" slips into appropriate envelopes; have poster materials and space available for groups to work. Contact guest speaker, facilitate needs as requested

### Lab Organization Strategies:

Leadership (Connect to 21st Century Skills selected):

Please see highlighted skills above

Cooperative Learning:

• Students will work in large groups and triads

### Expectations:

Students are expected to be good team members (positive and supportive language, respectful interactions, focused and on-task, supportive of each other, communicate professionally, seek out support within and beyond the team as needed) as well as self-directed learners to complete their own responsibilities as defined by the group.

Timeline: 3(ish) days + 1 day (guest speaker if possible)

- Day 1: Introduce the concept, have students make a prediction, create triads and explore the formula
- Day 2: Calculations and spreadsheets, group discovery
- Day 3: Posters/presentations
- Day 4: Guest speaker (financial advisory) addressing the time-value of money, the power of investing, and the reality of finding the interest rates we used

### Post Lab Follow-Up/Conclusions:

Discuss real world application of learning from lab

 Time-value of money, reality of finding investments with appropriate growth rates, feasibility of consistent period contributions (could those contributions change with life events?), learning the language of personal investing and finding an advisor whom you can trust

### **Career Applications**

- Business, Personal Finance, Investing, Wealth Management, Banking Optional or Extension Activities
  - Compare/Contrast other methods of compounding interest on investments
  - Students could tie into a mutual fund lesson and do research on realistic growth rates
    for mutual funds instead of being given arbitrary rates. Students could interview people
    in their life, asking when they hope to retire and how much money the predict will be
    needed. A future value calculation could be completed to determine if they will reach
    that goal using a current market growth rate on mutual funds.

### I'm Gonna Be Rich! Exploring Future Value

| Name:                                       |
|---------------------------------------------|
| Date:                                       |
| Period:                                     |
| Triad Partners (Doubles Partner if needed): |
|                                             |
| Making Prodictions:                         |

### Making Predictions:

- Everyone wants to be rich, right? What do you believe is the most important factor to developing monetary wealth: time, rate of growth, or periodic investment.
- What do those terms mean to you?
  - o Time:
  - Rate of growth?
  - Periodic investment?
- Share and compare your ideas with an elbow partner. Do you need to change your definitions or need clarification?
- Take your paper with you to the location in the room that represents time, rate of growth, or periodic investment. Share with the others in that location why you chose this factor. Take some notes on what others share—you might be sharing your large group's ideas with others!
- Number off so we create triads (one person in the group represents one of the three factors). Discuss what your large groups shared about the factor you chose. Have a discussion in your triad about the reasoning from your large groups. Take some notes! You might want to change your mind on the most important factor.

### Unpacking the formula:

• Time to take a look at our future value formula in our triads. Please turn to p110. In your groups define each variable. Be prepared for a thumb check regarding what each variable represents and to share out with the class what you discussed.

r: Vashtıngı: Om

- What do you notice about the formula? How is it different/similar to other formulas we have used? Why are there two 1's and why don't they cancel? Can we treat this as a function? If so, what would be the input?
- How can I "attack" this formula and make my calculator make sense of the order of operations? Can you "chunk" this formula into smaller, less overwhelming steps?
- Can I skip some of the parenthesis? Do I need more?

### Formula Practice:

- Let's explore an application:
  - Tanner can budget \$175 each month to contribute to a mutual fund that is expected to grow on average 7% annually. How much money will he have in the fund if he invests for 15 years? Do you have enough information to complete this problem? Assumptions to be made?

### Testing our predictions:

- Time for luck of the draw—select a slip of paper from the envelope labeled with your preferred factor. Complete the calculations described and organize your findings in a spreadsheet. Create a graph (what will be x, what will be y?). Share your findings. Combine your data and display it graphically. Write a brief summary of what your findings (shared google document would be a great idea) are telling you about time, rate, and investment amount. Remember to be independent learners and good teammates when appropriate.
- What do you believe to be the most important factor impacting future growth of investments? Did you change your mind or confirm your original prediction? Be prepared to explain...

Presentation mode:

 You will now create a poster or PowerPoint to share your group findings and conclusion(s). You must include calculations and your interpretations of your graphs IN CONTEXT. Remember to use your technology, mathematical, and artistic skills as you prepare your poster and organize a presentation to the class.

Hear it from the expert:

 We will be welcoming a financial planner to sit in on our presentations and share with us her/his expertise in the time-value of money, the power of investing, and the reality of finding the interest rates we used. During the presentations, think of good questions to ask and feedback to share with the groups and our guest.

Feedback:

 What things went well in this activity? What do you wish you could change? What advice do you have for the next time I share this activity with students?

• Rate your performance as a team member: 1 2 3 4

Rate your team's ability to work together effectively: 1 2 3 4

• What is the most important thing you will take away from this activity?

 Write a brief summary sharing what you learned with someone who knows nothing about investing, compound interest, and future value. For extra credit, teach someone what you learned and ask for their feedback on your mini-lesson.

Rubric (I am not including definitions of the point values—I prefer to have the students develop these as a class in prior activities. It helps develop norms, personal accountability, and a deep understanding of what's expected when we work together to develop the rubric. It changes each semester).

Communication

Independent learner

3 4 1 2 3

Supporting your team

2

Respecting other teams

2 3 4 1 2 3

Ability to stay on task
1 2 3 4

Accuracy of calculations

1 2 3 4

Group Presentation/Poster/PowerPoint

1 2 3 4

Attentiveness during other presentations

1 2 3 4

Active involvement with guest speaker

1 2 3 4

What I learned summary

1 2 3 4

Extra Credit: Feedback from your "student" after mini lesson

1 2 3 4

Council

### **Extension:**

Students will begin a research project in preparation for the investment and retirement units. Students will be asked to research both pre-tax and post-tax investment opportunities including, but not limited to, Roth IRA, Traditional IRA, 401K/403b, growth mutual funds, and standard savings accounts. Using career research from a previous unit, they will determine their ability to meet their financial retirement goals of \$1,000,000 after 40 years of investing/saving. If they do not believe they will achieve their financial goals, they need to extend the career research project to a similar career in the same field with a higher earning potential or make adjustments to their budget to allow for a higher periodic contribution. This will impact their overarching budget project throughout the course, impacting investment contributions, savings, educational costs, etc.

Initially students will play "Build Your Stax" online (<a href="https://buildyourstax.com/">https://buildyourstax.com/</a>), learning in real time about how to develop an investment portfolio using a variety of investment opportunities. Each opportunity is described and defined in a 20-minute online game. The goal is to earn as much money as possible using a variety of investment strategies while also dealing with random real-life "pop-up" scenarios which impact their financial situation. After completing the game, perhaps more than once to develop a better understanding of the different investment opportunities available, students will begin online research of the investment opportunities.

Through this game and research students will begin to develop an investment portfolio and take personal ownership to meet their needs and allocate 15% (or more if they choose or need) of their gross income to meet their financial retirement goal of \$1,000,000. This is one of many pieces of a comprehensive course project connecting education, career pathways, income, investments, and budgets for a successful financial future. Below you will find activities and student materials to scaffold this project over several chapters. A game that works with students to build an investment plan to diversify investment opportunities can be found below.

- Career Research Template attached
- Investment Research Template attached
- Cash Flow Analysis Spreadsheet attached
- Stax Investment Game: <a href="https://buildyourstax.com/">https://buildyourstax.com/</a>

### **Investment Research Template**

| Roth IRA  Pre-tax Post-tax  Description of the fund  Pros/Cons of the fund/account? |
|-------------------------------------------------------------------------------------|
| Where/How does one open this fund/account?                                          |
| Typical rate of return?                                                             |
| Sites used:                                                                         |
| Traditional IRA  Pre-tax Post-tax  Description of the fund                          |
| Pros/Cons of the fund/account?                                                      |
| Where/How does one open this fund/account?                                          |
| Typical rate of return?                                                             |
| Sites used:                                                                         |

| A01K/403b Pre-tax Post-tax Description of the fund |  |
|----------------------------------------------------|--|
| Pros/Cons of the fund/account?                     |  |
| Where/How does one open this fund/account?         |  |
| Typical rate of return?                            |  |
| Sites used:                                        |  |
|                                                    |  |
| Growth Mutual Funds Pre-tax Post-tax               |  |
| Description of the fund                            |  |
| Pros/Cons of the fund/account?                     |  |
|                                                    |  |
| Where/How does one open this fund/account?         |  |
| Typical rate of return?                            |  |
| Sites used:                                        |  |

| Standard Savings Accounts                                                  |
|----------------------------------------------------------------------------|
| Pre-tax Post-tax                                                           |
| Description of the fund                                                    |
|                                                                            |
|                                                                            |
|                                                                            |
| Pros/Cons of the fund/account?                                             |
|                                                                            |
|                                                                            |
|                                                                            |
| Where/How does one open this fund/account?                                 |
|                                                                            |
|                                                                            |
| Typical rate of return?                                                    |
|                                                                            |
|                                                                            |
| Sites used:                                                                |
|                                                                            |
|                                                                            |
|                                                                            |
| Other Lead to a 4 Octher (a)                                               |
| Other Investment Option(s)                                                 |
| Pre-tax Post-tax                                                           |
| Description of the fund                                                    |
|                                                                            |
|                                                                            |
|                                                                            |
| Pros/Cons of the fund/account?                                             |
|                                                                            |
| Pros/Cons of the fund/account?  Where/How does one open this fund/account? |
|                                                                            |
| Where/How does one open this fund/account?                                 |
|                                                                            |
| Where/How does one open this fund/account?                                 |
| Where/How does one open this fund/account?                                 |
| Where/How does one open this fund/account?  Typical rate of return?        |

### **Career Research Template**

| Name:                                                               | Date:             | Period:                       |
|---------------------------------------------------------------------|-------------------|-------------------------------|
| Career Researched:                                                  |                   |                               |
| Website Used:                                                       |                   |                               |
| What is the average salary for this can family?                     | areer? Can I aff  | ord to live on this with a    |
| What level of education, certification     How much will that cost? | or training is ne | ecessary for this occupation? |
| 3. What does a typical day look like?                               |                   |                               |
| 4. What excites me about this career?                               | Why would I be    | passionate about it?          |
| 5. What personal strengths and weakne                               | esses would thi   | s job show?                   |
| 6. Is there room for growth and promoti                             | ion?iedn          |                               |

Financial Algebra
Chapter 10, Section 4
Cash Flow Analysis Spreadsheet

Income

| income                         |          |                                        |              |
|--------------------------------|----------|----------------------------------------|--------------|
| Primary Employment             | \$34,600 |                                        |              |
| Secondary Employment           | \$1,200  |                                        |              |
| Other Income                   | \$500    |                                        |              |
| Total Income                   | \$36,300 |                                        |              |
| Fixed Funesce                  |          | Non Monthly Everyon (nonvers)          |              |
| Fixed Expenses                 | 4500     | Non-Monthly Expenses (per year)        | 4200.00      |
| Rent/Mortgage                  | \$600    | Medical/Dental                         | \$300.00     |
| Car Loan Payment               | \$300    | Auto Related                           | \$300.00     |
| Education Loan Payment         | \$300    | Home Related                           | \$300.00     |
| Personal Loan Payment          | \$100    | Life Insurance                         | \$0.00       |
| Health Insurance Premium       | \$150    | Tuition                                | \$5,000.00   |
| Life Insurance premium         | \$0      | Vacation                               | \$1,200.00   |
| Car Insurance Premium          | \$150    | Gifts                                  | \$0.00       |
| Homeowner's/Renter's Insurance | \$0      | Contributions                          | \$0.00       |
| Cable TV                       | \$50     | Repairs                                | \$0.00       |
| Total Fixed Expenses           | \$1,650  | Taxes                                  | \$2,000.00   |
|                                |          | Other                                  | \$0.00       |
| Variable Expenses              |          | Total Non-Monthly Expenses (per year)  | \$9,100.00   |
| Groceries (Food)               | \$800    |                                        |              |
| Dining Out                     | \$150    | Total Non-Monthly Expenses (per month) | \$758.33     |
| Fuel (Car)                     | \$0      |                                        |              |
| Cell Phone                     | \$80     | Total Expenses                         | \$4,228.33   |
| Land Line Phone                | \$0      |                                        |              |
| Electricity                    | \$40     | Monthly Cash Flow                      | (\$1,203.33) |
| Water                          | \$0      |                                        |              |
| Sewer                          | \$0      | TEST QUESTIONS                         |              |
| Sanitation                     | \$0      | a.) Total Income                       | \$36,300.00  |
| Medical                        | \$0      | b.) Total Fixed Expenses               | \$1,650      |
| Entertainment                  | \$0      | c.) Total Variable Expenses            | \$1,820      |
| Savings                        | \$500    | d.) Total non-monthly expenses         | \$9,100.00   |
| Debt Reduction                 | \$250    | e.) Average non-monthly expenses       | \$758.33     |
|                                |          |                                        |              |
| Other                          | \$0      | f.) Total Expenses                     | \$4,228.33   |

\$29,700 **Primary Employment** \$3,700 Secondary Employment Other Income \$2,150 Rent/Mortgage \$700 Car Loan Payment \$250 \$400 **Education Loan Payment** \$125 Personal Loan Payment Health Insurance Premium \$150 Car Insurance Premium \$140 Cable TV \$65 \$750 Groceries (Food) \$275 Fuel (Car) \$80 Cell Phone \$40 Electricity \$445 Savings \$110 **Debt Reduction** \$175.00 Medical/Dental \$140.00 **Auto Related** \$100.00 Home Related \$2,000.00 **Tuition** \$1,200.00 Vacation Taxes \$315.00

|       |      | Periodic   |       |      | P   | Periodic |       |
|-------|------|------------|-------|------|-----|----------|-------|
| Years | Rate | Investment | Years | Rate | Inv | estment  | Years |
| 10    | 4%   | \$ 100.00  | 20    | 4%   | \$  | 100.00   | 30    |
| 10    | 6%   | \$ 100.00  | 20    | 6%   | \$  | 100.00   | 30    |
| 10    | 8%   | \$ 100.00  | 20    | 8%   | \$  | 100.00   | 30    |
| 10    | 10%  | \$ 100.00  | 20    | 10%  | \$  | 100.00   | 30    |
|       |      |            |       |      |     |          |       |
| 10    | 4%   | \$ 150.00  | 20    | 4%   | \$  | 150.00   | 30    |
| 10    | 6%   | \$ 150.00  | 20    | 6%   | \$  | 150.00   | 30    |
| 10    | 8%   | \$ 150.00  | 20    | 8%   | \$  | 150.00   | 30    |
| 10    | 10%  | \$ 150.00  | 20    | 10%  | \$  | 150.00   | 30    |
|       |      |            |       |      |     |          |       |
| 10    | 4%   | \$ 200.00  | 20    | 4%   | \$  | 200.00   | 30    |
| 10    | 6%   | \$ 200.00  | 20    | 6%   | \$  | 200.00   | 30    |
| 10    | 8%   | \$ 200.00  | 20    | 8%   | \$  | 200.00   | 30    |
| 10    | 10%  | \$ 200.00  | 20    | 10%  | \$  | 200.00   | 30    |
|       |      |            |       |      |     |          |       |
| 10    | 4%   | \$ 250.00  | 20    | 4%   | \$  | 250.00   | 30    |
| 10    | 6%   | \$ 250.00  | 20    | 6%   | \$  | 250.00   | 30    |
| 10    | 8%   | \$ 250.00  | 20    | 8%   | \$  | 250.00   | 30    |
| 10    | 10%  | \$ 250.00  | 20    | 10%  | \$  | 250.00   | 30    |

| Periodic |      |     |         |  | Periodic |      |     |         |  |
|----------|------|-----|---------|--|----------|------|-----|---------|--|
|          | Rate | Inv | estment |  | Years    | Rate | Inv | estment |  |
|          | 4%   | \$  | 100.00  |  | 40       | 4%   | \$  | 100.00  |  |
|          | 6%   | \$  | 100.00  |  | 40       | 6%   | \$  | 100.00  |  |
|          | 8%   | \$  | 100.00  |  | 40       | 8%   | \$  | 100.00  |  |
|          | 10%  | \$  | 100.00  |  | 40       | 10%  | \$  | 100.00  |  |
|          |      |     |         |  |          |      |     |         |  |
|          | 4%   | \$  | 150.00  |  | 40       | 4%   | \$  | 150.00  |  |
|          | 6%   | \$  | 150.00  |  | 40       | 6%   | \$  | 150.00  |  |
|          | 8%   | \$  | 150.00  |  | 40       | 8%   | \$  | 150.00  |  |
|          | 10%  | \$  | 150.00  |  | 40       | 10%  | \$  | 150.00  |  |
|          |      |     |         |  |          |      |     |         |  |
|          | 4%   | \$  | 200.00  |  | 40       | 4%   | \$  | 200.00  |  |
|          | 6%   | \$  | 200.00  |  | 40       | 6%   | \$  | 200.00  |  |
|          | 8%   | \$  | 200.00  |  | 40       | 8%   | \$  | 200.00  |  |
|          | 10%  | \$  | 200.00  |  | 40       | 10%  | \$  | 200.00  |  |
|          |      |     |         |  |          |      |     |         |  |
|          | 4%   | \$  | 250.00  |  | 40       | 4%   | \$  | 250.00  |  |
|          | 6%   | \$  | 250.00  |  | 40       | 6%   | \$  | 250.00  |  |
|          | 8%   | \$  | 250.00  |  | 40       | 8%   | \$  | 250.00  |  |
|          | 10%  | \$  | 250.00  |  | 40       | 10%  | \$  | 250.00  |  |

|       |      | Periodic   |       | Periodic |     |          |  |       |  |
|-------|------|------------|-------|----------|-----|----------|--|-------|--|
| Years | Rate | Investment | Years | Rate     | Inv | estment/ |  | Years |  |
| 10    | 6%   | \$ 100.00  | 20    | 6%       | \$  | 100.00   |  | 30    |  |
| 10    | 8%   | \$ 100.00  | 20    | 8%       | \$  | 100.00   |  | 30    |  |
| 10    | 10%  | \$ 100.00  | 20    | 10%      | \$  | 100.00   |  | 30    |  |
| 10    | 6%   | \$ 150.00  | 20    | 6%       | \$  | 150.00   |  | 30    |  |
| 10    | 8%   | \$ 150.00  | 20    | 8%       | \$  | 150.00   |  | 30    |  |
| 10    | 10%  | \$ 150.00  | 20    | 10%      | \$  | 150.00   |  | 30    |  |
| 10    | 6%   | \$ 200.00  | 20    | 6%       | \$  | 200.00   |  | 30    |  |
| 10    | 8%   | \$ 200.00  | 20    | 8%       | \$  | 200.00   |  | 30    |  |
| 10    | 10%  | \$ 200.00  | 20    | 10%      | \$  | 200.00   |  | 30    |  |
| 10    | 6%   | \$ 250.00  | 20    | 6%       | \$  | 250.00   |  | 30    |  |
| 10    | 8%   | \$ 250.00  | 20    | 8%       | \$  | 250.00   |  | 30    |  |
| 10    | 10%  | \$ 250.00  | 20    | 10%      | \$  | 250.00   |  | 30    |  |

|      | Р   | eriodic |       |      | Peri   | iodic |  |  |
|------|-----|---------|-------|------|--------|-------|--|--|
| Rate | Inv | estment | Years | Rate | Invest | tment |  |  |
| 6%   | \$  | 100.00  | 40    | 6%   | \$ 10  | 00.00 |  |  |
| 8%   | \$  | 100.00  | 40    | 8%   | \$ 10  | 00.00 |  |  |
| 10%  | \$  | 100.00  | 40    | 10%  | \$ 10  | 00.00 |  |  |
|      |     |         |       |      |        |       |  |  |
| 6%   | \$  | 150.00  | 40    | 6%   | \$ 1!  | 50.00 |  |  |
| 8%   | \$  | 150.00  | 40    | 8%   | \$ 1!  | 50.00 |  |  |
| 10%  | \$  | 150.00  | 40    | 10%  | \$ 1!  | 50.00 |  |  |
|      |     |         |       |      |        |       |  |  |
| 6%   | \$  | 200.00  | 40    | 6%   | \$ 20  | 00.00 |  |  |
| 8%   | \$  | 200.00  | 40    | 8%   | \$ 20  | 00.00 |  |  |
| 10%  | \$  | 200.00  | 40    | 10%  | \$ 20  | 00.00 |  |  |
|      |     |         |       |      |        |       |  |  |
| 6%   | \$  | 250.00  | 40    | 6%   | \$ 25  | 50.00 |  |  |
| 8%   | \$  | 250.00  | 40    | 8%   | \$ 2!  | 50.00 |  |  |
| 10%  | \$  | 250.00  | 40    | 10%  | \$ 2!  | 50.00 |  |  |
|      |     |         |       |      |        |       |  |  |
|      |     |         |       |      |        |       |  |  |