

Lesson Plan

Text: Financial Algebra

Chapter: 8

Unit number: 4

Title of unit: Independent Living: Purchase a Home

Developed by: John P. Wright, jpwright@seattleschools.org

Date: 06-26-2012

Short Description (Be sure to include where in your unit this lesson takes place):

This lesson focuses on mastery-level skills of understanding and developing amortization tables. It follows a shorter lesson distinguishing recurring from non-recurring costs. This lesson starts with a quick review of simple interest (per period) and the monthly payment formula from prior chapters. After developing the ability to analyze the amortization tables given in the unit there is an extension Lab that combines an adjustable rate (ARM) and the option of making extra principal payments into a single amortization table.

LESSON PLAN

TEACHER: Teacher Prep/ Lesson Plan

- **Lesson Objectives (Students will be able to:)**
 - **Students will be able to calculate the monthly interest for a home loan and recognize that the monthly interest amount varies (constantly decreasing for a fixed rate loan)**
 - **Students will be able to create an amortization table for an ARM and recognize that the monthly payment amount and total interest charge varies in line with the interest rate adjustments**
 - **Students will be able to calculate the monthly home payment, including the amounts towards principal and towards interest, and use that information to create and/or analyze a amortization table**
 - **Students will be able to analyze and calculate the benefit of making extra principal payments to pay off a loan faster**
 - **Students will complete the Lab will learn shortcuts to fill 100's of rows of data using Excel's fill-in copy shortcuts**
- **List of prerequisite skills needed:**
 - **Calculator skills – should be comfortable with entering fractions, parentheses and exponents. The TI-30XIIS allows complex fractions to be viewed the same way on the calculator as in the text (ex.**

$$\frac{225000 \left(\frac{.05875}{12} \right) \left(1 + \frac{.05875}{12} \right)^{12 \cdot 30}}{\left(1 + \frac{.05875}{12} \right)^{12 \cdot 30} - 1}$$

- **Percentage rate conversion to decimal**

- MS Excel skills – some prior exposure, even just a couple of days, will assist in using and understanding the structure of the amortization tables. 5+ days of MS Excel experience is recommended for using the 2-period Lab activity of building amortization tables in MS Excel.
- Prior experience with the simple interest formula (Unit 3-3) and monthly loan payment formula (Unit 4-2) is assumed, although may need review.
- **Vocabulary:**
 - Adjustment period
 - Amortization Table - A listing by period/month of the beginning balance of a loan, the monthly payment, the amount allocated to principal, the amount allocated to interest, extra principal payments and the ending monthly balance
 - ARM (Adjustable Rate Mortgage)
 - Assumes “rate” and “mortgage” also individually understood
 - Hybrid ARM
 - Beginning & Ending Balance
 - Cell
 - Fixed Rate
 - Initial Rate
 - Principal - The amount of money owed (synonymous with “balance”)
 - Spreadsheet

- **State Standards addressed:** *(You may use your District's Power Standards if applicable, Highlight “Green” Standards)*
 - Math:** A2.1.A – Modeling equations to solve problems
 - A2.8.C – Evaluate a solution for reasonableness... and interpret in the context of the original problem (ex. ending balance reasonably is approximately zero)
 - A1.1.E – Solve problems that can be represented by exponential functions and equations.
 - A1.1.7 – Express sequences in recursive form.
 - Reading:** (Reading)
 - Writing:** (Writing)
 - Leadership:**
- **Teacher Preparation:** *(What materials and set-up are required for this lesson?)*

A computer lab is required for students to complete the lab. The ability to project an Excel spreadsheet for initial modeling of amortization tables is desirable although not required.

Prior to completing the lab it is highly recommended that the teacher completes the entire lab oneself to gain experience with some of the Excel techniques (ex. double-left click the cross in the lower right corner to fill a formula down a column). It may also be necessary to update the lab for computers with versions of Excel other than 2010 (screen shots may look slightly different, for example).

The websites resource may also be helpful to prepare.

<https://wa-appliedmath.org/>

- **Content Delivery:** *(How will the lesson be delivered? List any grouping and instructional strategies as well.)*

Pre-delivery - At the start of Unit 8 assign 4-5 individuals (or a group if use groups) a “staging” exercise in which they are to interview 1+ professionals and 1+ family/friend about home loans with a particular emphasis on how homeowners know how much they have to pay each month, where their money goes, and for how long. Some students’ assignment is to bring flyers for active homes/condos for sale in the neighborhood. Students will briefly read the text focusing on the “investigate” questions, vocabulary and ARMs portions prior to their interviews to obtain greater detail/clarification.

Day 1 - This group would be responsible for briefing the class on what they learned (variations could range from informal stand up and share their conversations to formal Power Point presentations). Be sure to encourage discussion after the sharing (if necessary).

Although it may require direct coaching in advance of the lesson day, try to have at least one student present an amortization table, either direct from an interviewed banker or one they printed from the internet as an example. Ideally have this student present last.

With the Excel Amortization Table Sample ready to go on a Presentation Station have some of the home/condo sale flyers ready to go and ask students to guess how much their monthly payment would be if they bought that house/condo. Students should select various amounts and time frames (15, 20, 25 or 30 years). Depending upon prior student MS Excel experience, a student may be the driver who enters the #s offered up by the class to show the monthly payments and scrolls through the amortization table to recognize patterns (ex. decreasing interest, increasing principal).

After reviewing several examples it would then be important to clarify any mathematical connections not yet clarified by the students (ex. beginning balance = prior ending balance, towards interest + towards principal = monthly payment, monthly payment formula can be calculated from chapter 4 credit formula). Review simple interest and monthly payment formula (on calculator) so students are prepared for some amortization table building practice. Model # 7 &/or #8 in class (potentially a student) prior to assigning homework.

Days 2/3 – In a computer lab students will work through the **Excel Amortization Lab Directions** to create an amortization table. Students will also complete the **Excel Amortization Lab Analysis Questions** after the core amortization table is complete. The lab can be either individual or team depending upon # of available computers or teacher preference.

Homework will be the **What I learned** questionnaire.

Day 4 – (Optional) Short follow-up quizzes are available.

- **Instructional Documents** (*Please attach any Worksheet, Quiz, Reading Guide, etc*)
 - FA 8-4 Websites (some tools and guidance for Excel amortization table techniques)
 - FA 8-4 Amortization Table Lab Plan
 - FA 8-4 Amortization Table for In-class Presentation (15, 20, 25, 30 yr)
 - FA 8-4 Lab Amortization Tables (an Excel file with staged samples)
 - FA 8-4 Excel Amortization Lab Analysis Questions (student worksheet)
 - FA 8-4 Excel Amortization Lab Directions
 - FA 8-4 Excel Amortization Lab - What I learned HW
- **Assessment Tool used in this Lesson** (*scoring method, guide, or rubric*)
 - FA 8-4 Quiz 1 (simplest quiz, 5 questions, breaks down each step)
 - FA 8-4 Quiz 2 (fill in the blanks for a simple fixed-rate amortization table)
 - FA 8-4 Quiz 3 (fill in blanks for an ARM with 2 adjustments - recommended after *FA 8-4 Amortization Table Lab* as an accountability piece, most complex of the 3 quizzes).

The Lab has an accompanying worksheet – Excel Amortization Lab Analysis Questions.
- **Reinforcement/Intervention/Extension Activities**

The Lab extends the text lesson by incorporating both extra principal payments and ARMs into a single spreadsheet. The text introduces both of these concepts but in separate amortization tables so the combination lab extends and reinforces these concepts.
- **Career Applications** (*When will this be used in “real life”?*)

The amortization table and its component formulas calculate/estimate the lifetime costs involved with purchasing a condo/home, with extensions to any major purchases requiring credit. Financed purchases could also include land, cars, boats, college educations, etc.

Small business owners and bookkeepers can also use this to develop amortization tables for equipment they purchase for their business.

<https://wa-appliedmath.org/>

Lesson Plan

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Short Description (Be sure to include where in your unit this lesson takes place):

This short introductory lesson introduces closing costs prior to introducing the more complex calculations of amortization tables in the latter portion of 8-4. This is primarily a conceptual introduction exploring vocabulary and various components of closing costs (prepaid interest, fees, insurance, taxes, etc.). The calculations are mostly straightforward percent's including the estimate that closing costs are usually in the 2-7% range of the loan amount.

LESSON PLAN

TEACHER: Teacher Prep/ Lesson Plan

- **Lesson Objectives (Students will be able to:)**
 - **Students will be able to list many of the components of “closing costs”**
 - **Students will be able to estimate the total closing costs**
 - **Students will be able to precisely calculate the prepaid interest and real estate excise tax components of closing costs**
 - **Students will be able to distinguish between recurring and non-recurring costs of home ownership**

- **List of prerequisite skills needed:**
 - Percentage rate conversion to decimal
 - Concept of a down payment from the credit and auto chapters (3 & 5)

- **Vocabulary:**
 - Adjustment period
 - Attorney Fees (minimal use in most WA transactions)
 - Earnest Money Deposit
 - Interest
 - Points – Origination and Discount (emphasize discount points as a set-up for the amortization tables.
 - Prepaid Interest
 - Property Tax
 - Real Estate Excise Tax
 - Recurring and Non-recurring costs
 - Title, Title Search & Title Insurance
 - Transfer Tax

- **State Standards addressed:** *(You may use your District's Power Standards if applicable, Highlight "Green" Standards)*

Math: A2.1.A – Modeling equations to solve problems

A2.8.C – Evaluate a solution for reasonableness... and interpret in the context of the original problem (ex. are closing costs reasonably falling in the total 2-7% range?)

Reading: (Reading)

Writing: (Writing)

Leadership:

- **Teacher Preparation:** *(What materials and set-up are required for this lesson?)*
Review the local excise tax rates to prepare students for the actual amount charged on local real estate transactions. Washington state resources are listed on the website list.

The websites resource may also be helpful to prepare.

- **Content Delivery:** *(How will the lesson be delivered? List any grouping and instructional strategies as well.)*

Pre-delivery - At the start of Unit 8 assign 4-5 individuals (or a group if use groups) a “staging” exercise in which they are to interview 1+ professionals and 1+ family/friend about home loans with a particular emphasis on asking bankers/real-estate professionals/family/friends what they know about closing costs. If students can obtain a copy of a real estate closing costs (protect confidentiality by crossing it out) all the better. If at least one student can investigate the costs of renting a moving truck or using a local moving company that would add to the discussion, so request that from the group selected for this section. Students will briefly read the text lesson introduction with an emphasis on the vocabulary and examples of non-recurring closing costs.

These pre-delivery questions apply to both today’s current closing cost discussion. The selected students will introduce their learning to the class and initiate the discussion.

- **Instructional Documents** *(Please attach any Worksheet, Quiz, Reading Guide, etc)*

FA 8-4 Websites

- **Assessment Tool used in this Lesson** *(scoring method, guide, or rubric)*
Participation points for the students/group responsible for the “staging” with information and questions about what they learned about closing costs.

Assign # 1-6 for class/homework for the section.

- **Reinforcement/Intervention/Extension Activities**

This short introduction into closing costs extends naturally with the follow-up lesson on amortization tables. A connection between the list price of the house and the home loan amount should be emphasized as it will affect the amortization schedule as the closing costs may be rolled into the loan in whole or in part. This should be reinforced with students not only for home loans but also that many loans (cars, payday loans, tax refund loans) have large fees similar to closing costs.

- **Career Applications** (*When will this be used in “real life”?*)

As most students will eventually purchase a condo, home or real estate at some time in their adult life, becoming familiar with “closing costs” now can be an important reminder that purchasing real estate involves not just the daily “can I afford it?” questions but also a significant amount of non-recurring costs at the purchase and sale time.

Students may also consider the field of real estate (sales agent, appraiser, loan broker) or work for a bank or property management company in the future.

Washington Applied Math Council

<https://wa-appliedmath.org/>

Principal \$ 300,000.00
 Length of Loan (years) 15
 Interest Rate 6.250%

Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal
1	\$300,000.00	\$2,572.27	\$1,562.50	\$1,009.77
2	\$298,990.23	\$2,572.27	\$1,557.24	\$1,015.03
3	\$297,975.20	\$2,572.27	\$1,551.95	\$1,020.32
4	\$296,954.88	\$2,572.27	\$1,546.64	\$1,025.63
5	\$295,929.25	\$2,572.27	\$1,541.30	\$1,030.97
6	\$294,898.28	\$2,572.27	\$1,535.93	\$1,036.34
7	\$293,861.94	\$2,572.27	\$1,530.53	\$1,041.74
8	\$292,820.20	\$2,572.27	\$1,525.11	\$1,047.16
9	\$291,773.04	\$2,572.27	\$1,519.65	\$1,052.62
10	\$290,720.42	\$2,572.27	\$1,514.17	\$1,058.10
11	\$289,662.32	\$2,572.27	\$1,508.66	\$1,063.61
12	\$288,598.71	\$2,572.27	\$1,503.12	\$1,069.15
13	\$287,529.56	\$2,572.27	\$1,497.55	\$1,074.72
14	\$286,454.84	\$2,572.27	\$1,491.95	\$1,080.32
15	\$285,374.52	\$2,572.27	\$1,486.33	\$1,085.94
16	\$284,288.58	\$2,572.27	\$1,480.67	\$1,091.60
17	\$283,196.98	\$2,572.27	\$1,474.98	\$1,097.29
18	\$282,099.69	\$2,572.27	\$1,469.27	\$1,103.00
19	\$280,996.69	\$2,572.27	\$1,463.52	\$1,108.75
20	\$279,887.94	\$2,572.27	\$1,457.75	\$1,114.52
21	\$278,773.42	\$2,572.27	\$1,451.94	\$1,120.33
22	\$277,653.09	\$2,572.27	\$1,446.11	\$1,126.16
23	\$276,526.93	\$2,572.27	\$1,440.24	\$1,132.03
24	\$275,394.90	\$2,572.27	\$1,434.35	\$1,137.92
25	\$274,256.98	\$2,572.27	\$1,428.42	\$1,143.85
26	\$273,113.13	\$2,572.27	\$1,422.46	\$1,149.81
27	\$271,963.32	\$2,572.27	\$1,416.48	\$1,155.79
28	\$270,807.53	\$2,572.27	\$1,410.46	\$1,161.81
29	\$269,645.72	\$2,572.27	\$1,404.40	\$1,167.87
30	\$268,477.85	\$2,572.27	\$1,398.32	\$1,173.95
31	\$267,303.90	\$2,572.27	\$1,392.21	\$1,180.06
32	\$266,123.84	\$2,572.27	\$1,386.06	\$1,186.21
33	\$264,937.63	\$2,572.27	\$1,379.88	\$1,192.39
34	\$263,745.24	\$2,572.27	\$1,373.67	\$1,198.60
35	\$262,546.64	\$2,572.27	\$1,367.43	\$1,204.84

36	\$261,341.80	\$2,572.27	\$1,361.16	\$1,211.11
37	\$260,130.69	\$2,572.27	\$1,354.85	\$1,217.42
38	\$258,913.27	\$2,572.27	\$1,348.51	\$1,223.76
39	\$257,689.51	\$2,572.27	\$1,342.13	\$1,230.14
40	\$256,459.37	\$2,572.27	\$1,335.73	\$1,236.54
41	\$255,222.83	\$2,572.27	\$1,329.29	\$1,242.98
42	\$253,979.85	\$2,572.27	\$1,322.81	\$1,249.46
43	\$252,730.39	\$2,572.27	\$1,316.30	\$1,255.97
44	\$251,474.42	\$2,572.27	\$1,309.76	\$1,262.51
45	\$250,211.91	\$2,572.27	\$1,303.19	\$1,269.08
46	\$248,942.83	\$2,572.27	\$1,296.58	\$1,275.69
47	\$247,667.14	\$2,572.27	\$1,289.93	\$1,282.34
48	\$246,384.80	\$2,572.27	\$1,283.25	\$1,289.02
49	\$245,095.78	\$2,572.27	\$1,276.54	\$1,295.73
50	\$243,800.05	\$2,572.27	\$1,269.79	\$1,302.48
51	\$242,497.57	\$2,572.27	\$1,263.01	\$1,309.26
52	\$241,188.31	\$2,572.27	\$1,256.19	\$1,316.08
53	\$239,872.23	\$2,572.27	\$1,249.33	\$1,322.94
54	\$238,549.29	\$2,572.27	\$1,242.44	\$1,329.83
55	\$237,219.46	\$2,572.27	\$1,235.52	\$1,336.75
56	\$235,882.71	\$2,572.27	\$1,228.56	\$1,343.71
57	\$234,539.00	\$2,572.27	\$1,221.56	\$1,350.71
58	\$233,188.29	\$2,572.27	\$1,214.52	\$1,357.75
59	\$231,830.54	\$2,572.27	\$1,207.45	\$1,364.82
60	\$230,465.72	\$2,572.27	\$1,200.34	\$1,371.93
61	\$229,093.79	\$2,572.27	\$1,193.20	\$1,379.07
62	\$227,714.72	\$2,572.27	\$1,186.01	\$1,386.26
63	\$226,328.46	\$2,572.27	\$1,178.79	\$1,393.48
64	\$224,934.98	\$2,572.27	\$1,171.54	\$1,400.73
65	\$223,534.25	\$2,572.27	\$1,164.24	\$1,408.03
66	\$222,126.22	\$2,572.27	\$1,156.91	\$1,415.36
67	\$220,710.86	\$2,572.27	\$1,149.54	\$1,422.73
68	\$219,288.13	\$2,572.27	\$1,142.13	\$1,430.14
69	\$217,857.99	\$2,572.27	\$1,134.68	\$1,437.59
70	\$216,420.40	\$2,572.27	\$1,127.19	\$1,445.08
71	\$214,975.32	\$2,572.27	\$1,119.66	\$1,452.61
72	\$213,522.71	\$2,572.27	\$1,112.10	\$1,460.17
73	\$212,062.54	\$2,572.27	\$1,104.49	\$1,467.78
74	\$210,594.76	\$2,572.27	\$1,096.85	\$1,475.42
75	\$209,119.34	\$2,572.27	\$1,089.16	\$1,483.11
76	\$207,636.23	\$2,572.27	\$1,081.44	\$1,490.83
77	\$206,145.40	\$2,572.27	\$1,073.67	\$1,498.60

78	\$204,646.80	\$2,572.27	\$1,065.87	\$1,506.40
79	\$203,140.40	\$2,572.27	\$1,058.02	\$1,514.25
80	\$201,626.15	\$2,572.27	\$1,050.14	\$1,522.13
81	\$200,104.02	\$2,572.27	\$1,042.21	\$1,530.06
82	\$198,573.96	\$2,572.27	\$1,034.24	\$1,538.03
83	\$197,035.93	\$2,572.27	\$1,026.23	\$1,546.04
84	\$195,489.89	\$2,572.27	\$1,018.18	\$1,554.09
85	\$193,935.80	\$2,572.27	\$1,010.08	\$1,562.19
86	\$192,373.61	\$2,572.27	\$1,001.95	\$1,570.32
87	\$190,803.29	\$2,572.27	\$993.77	\$1,578.50
88	\$189,224.79	\$2,572.27	\$985.55	\$1,586.72
89	\$187,638.07	\$2,572.27	\$977.28	\$1,594.99
90	\$186,043.08	\$2,572.27	\$968.97	\$1,603.30
91	\$184,439.78	\$2,572.27	\$960.62	\$1,611.65
92	\$182,828.13	\$2,572.27	\$952.23	\$1,620.04
93	\$181,208.09	\$2,572.27	\$943.79	\$1,628.48
94	\$179,579.61	\$2,572.27	\$935.31	\$1,636.96
95	\$177,942.65	\$2,572.27	\$926.78	\$1,645.49
96	\$176,297.16	\$2,572.27	\$918.21	\$1,654.06
97	\$174,643.10	\$2,572.27	\$909.60	\$1,662.67
98	\$172,980.43	\$2,572.27	\$900.94	\$1,671.33
99	\$171,309.10	\$2,572.27	\$892.23	\$1,680.04
100	\$169,629.06	\$2,572.27	\$883.48	\$1,688.79
101	\$167,940.27	\$2,572.27	\$874.69	\$1,697.58
102	\$166,242.69	\$2,572.27	\$865.85	\$1,706.42
103	\$164,536.27	\$2,572.27	\$856.96	\$1,715.31
104	\$162,820.96	\$2,572.27	\$848.03	\$1,724.24
105	\$161,096.72	\$2,572.27	\$839.05	\$1,733.22
106	\$159,363.50	\$2,572.27	\$830.02	\$1,742.25
107	\$157,621.25	\$2,572.27	\$820.94	\$1,751.33
108	\$155,869.92	\$2,572.27	\$811.82	\$1,760.45
109	\$154,109.47	\$2,572.27	\$802.65	\$1,769.62
110	\$152,339.85	\$2,572.27	\$793.44	\$1,778.83
111	\$150,561.02	\$2,572.27	\$784.17	\$1,788.10
112	\$148,772.92	\$2,572.27	\$774.86	\$1,797.41
113	\$146,975.51	\$2,572.27	\$765.50	\$1,806.77
114	\$145,168.74	\$2,572.27	\$756.09	\$1,816.18
115	\$143,352.56	\$2,572.27	\$746.63	\$1,825.64
116	\$141,526.92	\$2,572.27	\$737.12	\$1,835.15
117	\$139,691.77	\$2,572.27	\$727.56	\$1,844.71
118	\$137,847.06	\$2,572.27	\$717.95	\$1,854.32
119	\$135,992.74	\$2,572.27	\$708.30	\$1,863.97

120	\$134,128.77	\$2,572.27	\$698.59	\$1,873.68
121	\$132,255.09	\$2,572.27	\$688.83	\$1,883.44
122	\$130,371.65	\$2,572.27	\$679.02	\$1,893.25
123	\$128,478.40	\$2,572.27	\$669.16	\$1,903.11
124	\$126,575.29	\$2,572.27	\$659.25	\$1,913.02
125	\$124,662.27	\$2,572.27	\$649.28	\$1,922.99
126	\$122,739.28	\$2,572.27	\$639.27	\$1,933.00
127	\$120,806.28	\$2,572.27	\$629.20	\$1,943.07
128	\$118,863.21	\$2,572.27	\$619.08	\$1,953.19
129	\$116,910.02	\$2,572.27	\$608.91	\$1,963.36
130	\$114,946.66	\$2,572.27	\$598.68	\$1,973.59
131	\$112,973.07	\$2,572.27	\$588.40	\$1,983.87
132	\$110,989.20	\$2,572.27	\$578.07	\$1,994.20
133	\$108,995.00	\$2,572.27	\$567.68	\$2,004.59
134	\$106,990.41	\$2,572.27	\$557.24	\$2,015.03
135	\$104,975.38	\$2,572.27	\$546.75	\$2,025.52
136	\$102,949.86	\$2,572.27	\$536.20	\$2,036.07
137	\$100,913.79	\$2,572.27	\$525.59	\$2,046.68
138	\$98,867.11	\$2,572.27	\$514.93	\$2,057.34
139	\$96,809.77	\$2,572.27	\$504.22	\$2,068.05
140	\$94,741.72	\$2,572.27	\$493.45	\$2,078.82
141	\$92,662.90	\$2,572.27	\$482.62	\$2,089.65
142	\$90,573.25	\$2,572.27	\$471.74	\$2,100.53
143	\$88,472.72	\$2,572.27	\$460.80	\$2,111.47
144	\$86,361.25	\$2,572.27	\$449.80	\$2,122.47
145	\$84,238.78	\$2,572.27	\$438.74	\$2,133.53
146	\$82,105.25	\$2,572.27	\$427.63	\$2,144.64
147	\$79,960.61	\$2,572.27	\$416.46	\$2,155.81
148	\$77,804.80	\$2,572.27	\$405.23	\$2,167.04
149	\$75,637.76	\$2,572.27	\$393.95	\$2,178.32
150	\$73,459.44	\$2,572.27	\$382.60	\$2,189.67
151	\$71,269.77	\$2,572.27	\$371.20	\$2,201.07
152	\$69,068.70	\$2,572.27	\$359.73	\$2,212.54
153	\$66,856.16	\$2,572.27	\$348.21	\$2,224.06
154	\$64,632.10	\$2,572.27	\$336.63	\$2,235.64
155	\$62,396.46	\$2,572.27	\$324.98	\$2,247.29
156	\$60,149.17	\$2,572.27	\$313.28	\$2,258.99
157	\$57,890.18	\$2,572.27	\$301.51	\$2,270.76
158	\$55,619.42	\$2,572.27	\$289.68	\$2,282.59
159	\$53,336.83	\$2,572.27	\$277.80	\$2,294.47
160	\$51,042.36	\$2,572.27	\$265.85	\$2,306.42
161	\$48,735.94	\$2,572.27	\$253.83	\$2,318.44

162	\$46,417.50	\$2,572.27	\$241.76	\$2,330.51
163	\$44,086.99	\$2,572.27	\$229.62	\$2,342.65
164	\$41,744.34	\$2,572.27	\$217.42	\$2,354.85
165	\$39,389.49	\$2,572.27	\$205.15	\$2,367.12
166	\$37,022.37	\$2,572.27	\$192.82	\$2,379.45
167	\$34,642.92	\$2,572.27	\$180.43	\$2,391.84
168	\$32,251.08	\$2,572.27	\$167.97	\$2,404.30
169	\$29,846.78	\$2,572.27	\$155.45	\$2,416.82
170	\$27,429.96	\$2,572.27	\$142.86	\$2,429.41
171	\$25,000.55	\$2,572.27	\$130.21	\$2,442.06
172	\$22,558.49	\$2,572.27	\$117.49	\$2,454.78
173	\$20,103.71	\$2,572.27	\$104.71	\$2,467.56
174	\$17,636.15	\$2,572.27	\$91.85	\$2,480.42
175	\$15,155.73	\$2,572.27	\$78.94	\$2,493.33
176	\$12,662.40	\$2,572.27	\$65.95	\$2,506.32
177	\$10,156.08	\$2,572.27	\$52.90	\$2,519.37
178	\$7,636.71	\$2,572.27	\$39.77	\$2,532.50
179	\$5,104.21	\$2,572.27	\$26.58	\$2,545.69
180	\$2,558.52	\$2,572.27	\$13.33	\$2,558.94

Council

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Ending Balance

\$298,990.23
\$297,975.20
\$296,954.88
\$295,929.25
\$294,898.28
\$293,861.94
\$292,820.20
\$291,773.04
\$290,720.42
\$289,662.32
\$288,598.71
\$287,529.56
\$286,454.84
\$285,374.52
\$284,288.58
\$283,196.98
\$282,099.69
\$280,996.69
\$279,887.94
\$278,773.42
\$277,653.09
\$276,526.93
\$275,394.90
\$274,256.98
\$273,113.13
\$271,963.32
\$270,807.53
\$269,645.72
\$268,477.85
\$267,303.90
\$266,123.84
\$264,937.63
\$263,745.24
\$262,546.64
\$261,341.80

Washington Applied Math Council

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\$260,130.69
\$258,913.27
\$257,689.51
\$256,459.37
\$255,222.83
\$253,979.85
\$252,730.39
\$251,474.42
\$250,211.91
\$248,942.83
\$247,667.14
\$246,384.80
\$245,095.78
\$243,800.05
\$242,497.57
\$241,188.31
\$239,872.23
\$238,549.29
\$237,219.46
\$235,882.71
\$234,539.00
\$233,188.29
\$231,830.54
\$230,465.72
\$229,093.79
\$227,714.72
\$226,328.46
\$224,934.98
\$223,534.25
\$222,126.22
\$220,710.86
\$219,288.13
\$217,857.99
\$216,420.40
\$214,975.32
\$213,522.71
\$212,062.54
\$210,594.76
\$209,119.34
\$207,636.23
\$206,145.40
\$204,646.80

Washington Applied Math Council

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\$203,140.40
\$201,626.15
\$200,104.02
\$198,573.96
\$197,035.93
\$195,489.89
\$193,935.80
\$192,373.61
\$190,803.29
\$189,224.79
\$187,638.07
\$186,043.08
\$184,439.78
\$182,828.13
\$181,208.09
\$179,579.61
\$177,942.65
\$176,297.16
\$174,643.10
\$172,980.43
\$171,309.10
\$169,629.06
\$167,940.27
\$166,242.69
\$164,536.27
\$162,820.96
\$161,096.72
\$159,363.50
\$157,621.25
\$155,869.92
\$154,109.47
\$152,339.85
\$150,561.02
\$148,772.92
\$146,975.51
\$145,168.74
\$143,352.56
\$141,526.92
\$139,691.77
\$137,847.06
\$135,992.74
\$134,128.77

Washington Applied Math Council

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\$132,255.09
\$130,371.65
\$128,478.40
\$126,575.29
\$124,662.27
\$122,739.28
\$120,806.28
\$118,863.21
\$116,910.02
\$114,946.66
\$112,973.07
\$110,989.20
\$108,995.00
\$106,990.41
\$104,975.38
\$102,949.86
\$100,913.79
\$98,867.11
\$96,809.77
\$94,741.72
\$92,662.90
\$90,573.25
\$88,472.72
\$86,361.25
\$84,238.78
\$82,105.25
\$79,960.61
\$77,804.80
\$75,637.76
\$73,459.44
\$71,269.77
\$69,068.70
\$66,856.16
\$64,632.10
\$62,396.46
\$60,149.17
\$57,890.18
\$55,619.42
\$53,336.83
\$51,042.36
\$48,735.94
\$46,417.50

Washington Applied Math Council

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\$44,086.99
\$41,744.34
\$39,389.49
\$37,022.37
\$34,642.92
\$32,251.08
\$29,846.78
\$27,429.96
\$25,000.55
\$22,558.49
\$20,103.71
\$17,636.15
\$15,155.73
\$12,662.40
\$10,156.08
\$7,636.71
\$5,104.21
\$2,558.52
(\$0.42)

Washington Applied Math Council

<https://wa-appliedmath.org/>

Principal \$ 400,000.00
 Length of Loan (years) 20
 Interest Rate 6.000%

Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal
1	\$400,000.00	\$2,865.72	\$2,000.00	\$865.72
2	\$399,134.28	\$2,865.72	\$1,995.67	\$870.05
3	\$398,264.23	\$2,865.72	\$1,991.32	\$874.40
4	\$397,389.83	\$2,865.72	\$1,986.95	\$878.77
5	\$396,511.06	\$2,865.72	\$1,982.56	\$883.16
6	\$395,627.90	\$2,865.72	\$1,978.14	\$887.58
7	\$394,740.32	\$2,865.72	\$1,973.70	\$892.02
8	\$393,848.30	\$2,865.72	\$1,969.24	\$896.48
9	\$392,951.82	\$2,865.72	\$1,964.76	\$900.96
10	\$392,050.86	\$2,865.72	\$1,960.25	\$905.47
11	\$391,145.39	\$2,865.72	\$1,955.73	\$909.99
12	\$390,235.40	\$2,865.72	\$1,951.18	\$914.54
13	\$389,320.86	\$2,865.72	\$1,946.60	\$919.12
14	\$388,401.74	\$2,865.72	\$1,942.01	\$923.71
15	\$387,478.03	\$2,865.72	\$1,937.39	\$928.33
16	\$386,549.70	\$2,865.72	\$1,932.75	\$932.97
17	\$385,616.73	\$2,865.72	\$1,928.08	\$937.64
18	\$384,679.09	\$2,865.72	\$1,923.40	\$942.32
19	\$383,736.77	\$2,865.72	\$1,918.68	\$947.04
20	\$382,789.73	\$2,865.72	\$1,913.95	\$951.77
21	\$381,837.96	\$2,865.72	\$1,909.19	\$956.53
22	\$380,881.43	\$2,865.72	\$1,904.41	\$961.31
23	\$379,920.12	\$2,865.72	\$1,899.60	\$966.12
24	\$378,954.00	\$2,865.72	\$1,894.77	\$970.95
25	\$377,983.05	\$2,865.72	\$1,889.92	\$975.80
26	\$377,007.25	\$2,865.72	\$1,885.04	\$980.68
27	\$376,026.57	\$2,865.72	\$1,880.13	\$985.59
28	\$375,040.98	\$2,865.72	\$1,875.20	\$990.52
29	\$374,050.46	\$2,865.72	\$1,870.25	\$995.47
30	\$373,054.99	\$2,865.72	\$1,865.27	\$1,000.45
31	\$372,054.54	\$2,865.72	\$1,860.27	\$1,005.45
32	\$371,049.09	\$2,865.72	\$1,855.25	\$1,010.47
33	\$370,038.62	\$2,865.72	\$1,850.19	\$1,015.53
34	\$369,023.09	\$2,865.72	\$1,845.12	\$1,020.60
35	\$368,002.49	\$2,865.72	\$1,840.01	\$1,025.71
36	\$366,976.78	\$2,865.72	\$1,834.88	\$1,030.84

37	\$365,945.94	\$2,865.72	\$1,829.73	\$1,035.99
38	\$364,909.95	\$2,865.72	\$1,824.55	\$1,041.17
39	\$363,868.78	\$2,865.72	\$1,819.34	\$1,046.38
40	\$362,822.40	\$2,865.72	\$1,814.11	\$1,051.61
41	\$361,770.79	\$2,865.72	\$1,808.85	\$1,056.87
42	\$360,713.92	\$2,865.72	\$1,803.57	\$1,062.15
43	\$359,651.77	\$2,865.72	\$1,798.26	\$1,067.46
44	\$358,584.31	\$2,865.72	\$1,792.92	\$1,072.80
45	\$357,511.51	\$2,865.72	\$1,787.56	\$1,078.16
46	\$356,433.35	\$2,865.72	\$1,782.17	\$1,083.55
47	\$355,349.80	\$2,865.72	\$1,776.75	\$1,088.97
48	\$354,260.83	\$2,865.72	\$1,771.30	\$1,094.42
49	\$353,166.41	\$2,865.72	\$1,765.83	\$1,099.89
50	\$352,066.52	\$2,865.72	\$1,760.33	\$1,105.39
51	\$350,961.13	\$2,865.72	\$1,754.81	\$1,110.91
52	\$349,850.22	\$2,865.72	\$1,749.25	\$1,116.47
53	\$348,733.75	\$2,865.72	\$1,743.67	\$1,122.05
54	\$347,611.70	\$2,865.72	\$1,738.06	\$1,127.66
55	\$346,484.04	\$2,865.72	\$1,732.42	\$1,133.30
56	\$345,350.74	\$2,865.72	\$1,726.75	\$1,138.97
57	\$344,211.77	\$2,865.72	\$1,721.06	\$1,144.66
58	\$343,067.11	\$2,865.72	\$1,715.34	\$1,150.38
59	\$341,916.73	\$2,865.72	\$1,709.58	\$1,156.14
60	\$340,760.59	\$2,865.72	\$1,703.80	\$1,161.92
61	\$339,598.67	\$2,865.72	\$1,697.99	\$1,167.73
62	\$338,430.94	\$2,865.72	\$1,692.15	\$1,173.57
63	\$337,257.37	\$2,865.72	\$1,686.29	\$1,179.43
64	\$336,077.94	\$2,865.72	\$1,680.39	\$1,185.33
65	\$334,892.61	\$2,865.72	\$1,674.46	\$1,191.26
66	\$333,701.35	\$2,865.72	\$1,668.51	\$1,197.21
67	\$332,504.14	\$2,865.72	\$1,662.52	\$1,203.20
68	\$331,300.94	\$2,865.72	\$1,656.50	\$1,209.22
69	\$330,091.72	\$2,865.72	\$1,650.46	\$1,215.26
70	\$328,876.46	\$2,865.72	\$1,644.38	\$1,221.34
71	\$327,655.12	\$2,865.72	\$1,638.28	\$1,227.44
72	\$326,427.68	\$2,865.72	\$1,632.14	\$1,233.58
73	\$325,194.10	\$2,865.72	\$1,625.97	\$1,239.75
74	\$323,954.35	\$2,865.72	\$1,619.77	\$1,245.95
75	\$322,708.40	\$2,865.72	\$1,613.54	\$1,252.18
76	\$321,456.22	\$2,865.72	\$1,607.28	\$1,258.44
77	\$320,197.78	\$2,865.72	\$1,600.99	\$1,264.73
78	\$318,933.05	\$2,865.72	\$1,594.67	\$1,271.05

79	\$317,662.00	\$2,865.72	\$1,588.31	\$1,277.41
80	\$316,384.59	\$2,865.72	\$1,581.92	\$1,283.80
81	\$315,100.79	\$2,865.72	\$1,575.50	\$1,290.22
82	\$313,810.57	\$2,865.72	\$1,569.05	\$1,296.67
83	\$312,513.90	\$2,865.72	\$1,562.57	\$1,303.15
84	\$311,210.75	\$2,865.72	\$1,556.05	\$1,309.67
85	\$309,901.08	\$2,865.72	\$1,549.51	\$1,316.21
86	\$308,584.87	\$2,865.72	\$1,542.92	\$1,322.80
87	\$307,262.07	\$2,865.72	\$1,536.31	\$1,329.41
88	\$305,932.66	\$2,865.72	\$1,529.66	\$1,336.06
89	\$304,596.60	\$2,865.72	\$1,522.98	\$1,342.74
90	\$303,253.86	\$2,865.72	\$1,516.27	\$1,349.45
91	\$301,904.41	\$2,865.72	\$1,509.52	\$1,356.20
92	\$300,548.21	\$2,865.72	\$1,502.74	\$1,362.98
93	\$299,185.23	\$2,865.72	\$1,495.93	\$1,369.79
94	\$297,815.44	\$2,865.72	\$1,489.08	\$1,376.64
95	\$296,438.80	\$2,865.72	\$1,482.19	\$1,383.53
96	\$295,055.27	\$2,865.72	\$1,475.28	\$1,390.44
97	\$293,664.83	\$2,865.72	\$1,468.32	\$1,397.40
98	\$292,267.43	\$2,865.72	\$1,461.34	\$1,404.38
99	\$290,863.05	\$2,865.72	\$1,454.32	\$1,411.40
100	\$289,451.65	\$2,865.72	\$1,447.26	\$1,418.46
101	\$288,033.19	\$2,865.72	\$1,440.17	\$1,425.55
102	\$286,607.64	\$2,865.72	\$1,433.04	\$1,432.68
103	\$285,174.96	\$2,865.72	\$1,425.87	\$1,439.85
104	\$283,735.11	\$2,865.72	\$1,418.68	\$1,447.04
105	\$282,288.07	\$2,865.72	\$1,411.44	\$1,454.28
106	\$280,833.79	\$2,865.72	\$1,404.17	\$1,461.55
107	\$279,372.24	\$2,865.72	\$1,396.86	\$1,468.86
108	\$277,903.38	\$2,865.72	\$1,389.52	\$1,476.20
109	\$276,427.18	\$2,865.72	\$1,382.14	\$1,483.58
110	\$274,943.60	\$2,865.72	\$1,374.72	\$1,491.00
111	\$273,452.60	\$2,865.72	\$1,367.26	\$1,498.46
112	\$271,954.14	\$2,865.72	\$1,359.77	\$1,505.95
113	\$270,448.19	\$2,865.72	\$1,352.24	\$1,513.48
114	\$268,934.71	\$2,865.72	\$1,344.67	\$1,521.05
115	\$267,413.66	\$2,865.72	\$1,337.07	\$1,528.65
116	\$265,885.01	\$2,865.72	\$1,329.43	\$1,536.29
117	\$264,348.72	\$2,865.72	\$1,321.74	\$1,543.98
118	\$262,804.74	\$2,865.72	\$1,314.02	\$1,551.70
119	\$261,253.04	\$2,865.72	\$1,306.27	\$1,559.45
120	\$259,693.59	\$2,865.72	\$1,298.47	\$1,567.25

121	\$258,126.34	\$2,865.72	\$1,290.63	\$1,575.09
122	\$256,551.25	\$2,865.72	\$1,282.76	\$1,582.96
123	\$254,968.29	\$2,865.72	\$1,274.84	\$1,590.88
124	\$253,377.41	\$2,865.72	\$1,266.89	\$1,598.83
125	\$251,778.58	\$2,865.72	\$1,258.89	\$1,606.83
126	\$250,171.75	\$2,865.72	\$1,250.86	\$1,614.86
127	\$248,556.89	\$2,865.72	\$1,242.78	\$1,622.94
128	\$246,933.95	\$2,865.72	\$1,234.67	\$1,631.05
129	\$245,302.90	\$2,865.72	\$1,226.51	\$1,639.21
130	\$243,663.69	\$2,865.72	\$1,218.32	\$1,647.40
131	\$242,016.29	\$2,865.72	\$1,210.08	\$1,655.64
132	\$240,360.65	\$2,865.72	\$1,201.80	\$1,663.92
133	\$238,696.73	\$2,865.72	\$1,193.48	\$1,672.24
134	\$237,024.49	\$2,865.72	\$1,185.12	\$1,680.60
135	\$235,343.89	\$2,865.72	\$1,176.72	\$1,689.00
136	\$233,654.89	\$2,865.72	\$1,168.27	\$1,697.45
137	\$231,957.44	\$2,865.72	\$1,159.79	\$1,705.93
138	\$230,251.51	\$2,865.72	\$1,151.26	\$1,714.46
139	\$228,537.05	\$2,865.72	\$1,142.69	\$1,723.03
140	\$226,814.02	\$2,865.72	\$1,134.07	\$1,731.65
141	\$225,082.37	\$2,865.72	\$1,125.41	\$1,740.31
142	\$223,342.06	\$2,865.72	\$1,116.71	\$1,749.01
143	\$221,593.05	\$2,865.72	\$1,107.97	\$1,757.75
144	\$219,835.30	\$2,865.72	\$1,099.18	\$1,766.54
145	\$218,068.76	\$2,865.72	\$1,090.34	\$1,775.38
146	\$216,293.38	\$2,865.72	\$1,081.47	\$1,784.25
147	\$214,509.13	\$2,865.72	\$1,072.55	\$1,793.17
148	\$212,715.96	\$2,865.72	\$1,063.58	\$1,802.14
149	\$210,913.82	\$2,865.72	\$1,054.57	\$1,811.15
150	\$209,102.67	\$2,865.72	\$1,045.51	\$1,820.21
151	\$207,282.46	\$2,865.72	\$1,036.41	\$1,829.31
152	\$205,453.15	\$2,865.72	\$1,027.27	\$1,838.45
153	\$203,614.70	\$2,865.72	\$1,018.07	\$1,847.65
154	\$201,767.05	\$2,865.72	\$1,008.84	\$1,856.88
155	\$199,910.17	\$2,865.72	\$999.55	\$1,866.17
156	\$198,044.00	\$2,865.72	\$990.22	\$1,875.50
157	\$196,168.50	\$2,865.72	\$980.84	\$1,884.88
158	\$194,283.62	\$2,865.72	\$971.42	\$1,894.30
159	\$192,389.32	\$2,865.72	\$961.95	\$1,903.77
160	\$190,485.55	\$2,865.72	\$952.43	\$1,913.29
161	\$188,572.26	\$2,865.72	\$942.86	\$1,922.86
162	\$186,649.40	\$2,865.72	\$933.25	\$1,932.47

163	\$184,716.93	\$2,865.72	\$923.58	\$1,942.14
164	\$182,774.79	\$2,865.72	\$913.87	\$1,951.85
165	\$180,822.94	\$2,865.72	\$904.11	\$1,961.61
166	\$178,861.33	\$2,865.72	\$894.31	\$1,971.41
167	\$176,889.92	\$2,865.72	\$884.45	\$1,981.27
168	\$174,908.65	\$2,865.72	\$874.54	\$1,991.18
169	\$172,917.47	\$2,865.72	\$864.59	\$2,001.13
170	\$170,916.34	\$2,865.72	\$854.58	\$2,011.14
171	\$168,905.20	\$2,865.72	\$844.53	\$2,021.19
172	\$166,884.01	\$2,865.72	\$834.42	\$2,031.30
173	\$164,852.71	\$2,865.72	\$824.26	\$2,041.46
174	\$162,811.25	\$2,865.72	\$814.06	\$2,051.66
175	\$160,759.59	\$2,865.72	\$803.80	\$2,061.92
176	\$158,697.67	\$2,865.72	\$793.49	\$2,072.23
177	\$156,625.44	\$2,865.72	\$783.13	\$2,082.59
178	\$154,542.85	\$2,865.72	\$772.71	\$2,093.01
179	\$152,449.84	\$2,865.72	\$762.25	\$2,103.47
180	\$150,346.37	\$2,865.72	\$751.73	\$2,113.99
181	\$148,232.38	\$2,865.72	\$741.16	\$2,124.56
182	\$146,107.82	\$2,865.72	\$730.54	\$2,135.18
183	\$143,972.64	\$2,865.72	\$719.86	\$2,145.86
184	\$141,826.78	\$2,865.72	\$709.13	\$2,156.59
185	\$139,670.19	\$2,865.72	\$698.35	\$2,167.37
186	\$137,502.82	\$2,865.72	\$687.51	\$2,178.21
187	\$135,324.61	\$2,865.72	\$676.62	\$2,189.10
188	\$133,135.51	\$2,865.72	\$665.68	\$2,200.04
189	\$130,935.47	\$2,865.72	\$654.68	\$2,211.04
190	\$128,724.43	\$2,865.72	\$643.62	\$2,222.10
191	\$126,502.33	\$2,865.72	\$632.51	\$2,233.21
192	\$124,269.12	\$2,865.72	\$621.35	\$2,244.37
193	\$122,024.75	\$2,865.72	\$610.12	\$2,255.60
194	\$119,769.15	\$2,865.72	\$598.85	\$2,266.87
195	\$117,502.28	\$2,865.72	\$587.51	\$2,278.21
196	\$115,224.07	\$2,865.72	\$576.12	\$2,289.60
197	\$112,934.47	\$2,865.72	\$564.67	\$2,301.05
198	\$110,633.42	\$2,865.72	\$553.17	\$2,312.55
199	\$108,320.87	\$2,865.72	\$541.60	\$2,324.12
200	\$105,996.75	\$2,865.72	\$529.98	\$2,335.74
201	\$103,661.01	\$2,865.72	\$518.31	\$2,347.41
202	\$101,313.60	\$2,865.72	\$506.57	\$2,359.15
203	\$98,954.45	\$2,865.72	\$494.77	\$2,370.95
204	\$96,583.50	\$2,865.72	\$482.92	\$2,382.80

205	\$94,200.70	\$2,865.72	\$471.00	\$2,394.72
206	\$91,805.98	\$2,865.72	\$459.03	\$2,406.69
207	\$89,399.29	\$2,865.72	\$447.00	\$2,418.72
208	\$86,980.57	\$2,865.72	\$434.90	\$2,430.82
209	\$84,549.75	\$2,865.72	\$422.75	\$2,442.97
210	\$82,106.78	\$2,865.72	\$410.53	\$2,455.19
211	\$79,651.59	\$2,865.72	\$398.26	\$2,467.46
212	\$77,184.13	\$2,865.72	\$385.92	\$2,479.80
213	\$74,704.33	\$2,865.72	\$373.52	\$2,492.20
214	\$72,212.13	\$2,865.72	\$361.06	\$2,504.66
215	\$69,707.47	\$2,865.72	\$348.54	\$2,517.18
216	\$67,190.29	\$2,865.72	\$335.95	\$2,529.77
217	\$64,660.52	\$2,865.72	\$323.30	\$2,542.42
218	\$62,118.10	\$2,865.72	\$310.59	\$2,555.13
219	\$59,562.97	\$2,865.72	\$297.81	\$2,567.91
220	\$56,995.06	\$2,865.72	\$284.98	\$2,580.74
221	\$54,414.32	\$2,865.72	\$272.07	\$2,593.65
222	\$51,820.67	\$2,865.72	\$259.10	\$2,606.62
223	\$49,214.05	\$2,865.72	\$246.07	\$2,619.65
224	\$46,594.40	\$2,865.72	\$232.97	\$2,632.75
225	\$43,961.65	\$2,865.72	\$219.81	\$2,645.91
226	\$41,315.74	\$2,865.72	\$206.58	\$2,659.14
227	\$38,656.60	\$2,865.72	\$193.28	\$2,672.44
228	\$35,984.16	\$2,865.72	\$179.92	\$2,685.80
229	\$33,298.36	\$2,865.72	\$166.49	\$2,699.23
230	\$30,599.13	\$2,865.72	\$153.00	\$2,712.72
231	\$27,886.41	\$2,865.72	\$139.43	\$2,726.29
232	\$25,160.12	\$2,865.72	\$125.80	\$2,739.92
233	\$22,420.20	\$2,865.72	\$112.10	\$2,753.62
234	\$19,666.58	\$2,865.72	\$98.33	\$2,767.39
235	\$16,899.19	\$2,865.72	\$84.50	\$2,781.22
236	\$14,117.97	\$2,865.72	\$70.59	\$2,795.13
237	\$11,322.84	\$2,865.72	\$56.61	\$2,809.11
238	\$8,513.73	\$2,865.72	\$42.57	\$2,823.15
239	\$5,690.58	\$2,865.72	\$28.45	\$2,837.27
240	\$2,853.31	\$2,865.72	\$14.27	\$2,851.45

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Ending Balance
\$399,134.28
\$398,264.23
\$397,389.83
\$396,511.06
\$395,627.90
\$394,740.32
\$393,848.30
\$392,951.82
\$392,050.86
\$391,145.39
\$390,235.40
\$389,320.86
\$388,401.74
\$387,478.03
\$386,549.70
\$385,616.73
\$384,679.09
\$383,736.77
\$382,789.73
\$381,837.96
\$380,881.43
\$379,920.12
\$378,954.00
\$377,983.05
\$377,007.25
\$376,026.57
\$375,040.98
\$374,050.46
\$373,054.99
\$372,054.54
\$371,049.09
\$370,038.62
\$369,023.09
\$368,002.49
\$366,976.78
\$365,945.94

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\$364,909.95
\$363,868.78
\$362,822.40
\$361,770.79
\$360,713.92
\$359,651.77
\$358,584.31
\$357,511.51
\$356,433.35
\$355,349.80
\$354,260.83
\$353,166.41
\$352,066.52
\$350,961.13
\$349,850.22
\$348,733.75
\$347,611.70
\$346,484.04
\$345,350.74
\$344,211.77
\$343,067.11
\$341,916.73
\$340,760.59
\$339,598.67
\$338,430.94
\$337,257.37
\$336,077.94
\$334,892.61
\$333,701.35
\$332,504.14
\$331,300.94
\$330,091.72
\$328,876.46
\$327,655.12
\$326,427.68
\$325,194.10
\$323,954.35
\$322,708.40
\$321,456.22
\$320,197.78
\$318,933.05
\$317,662.00

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\$316,384.59
\$315,100.79
\$313,810.57
\$312,513.90
\$311,210.75
\$309,901.08
\$308,584.87
\$307,262.07
\$305,932.66
\$304,596.60
\$303,253.86
\$301,904.41
\$300,548.21
\$299,185.23
\$297,815.44
\$296,438.80
\$295,055.27
\$293,664.83
\$292,267.43
\$290,863.05
\$289,451.65
\$288,033.19
\$286,607.64
\$285,174.96
\$283,735.11
\$282,288.07
\$280,833.79
\$279,372.24
\$277,903.38
\$276,427.18
\$274,943.60
\$273,452.60
\$271,954.14
\$270,448.19
\$268,934.71
\$267,413.66
\$265,885.01
\$264,348.72
\$262,804.74
\$261,253.04
\$259,693.59
\$258,126.34

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\$256,551.25
\$254,968.29
\$253,377.41
\$251,778.58
\$250,171.75
\$248,556.89
\$246,933.95
\$245,302.90
\$243,663.69
\$242,016.29
\$240,360.65
\$238,696.73
\$237,024.49
\$235,343.89
\$233,654.89
\$231,957.44
\$230,251.51
\$228,537.05
\$226,814.02
\$225,082.37
\$223,342.06
\$221,593.05
\$219,835.30
\$218,068.76
\$216,293.38
\$214,509.13
\$212,715.96
\$210,913.82
\$209,102.67
\$207,282.46
\$205,453.15
\$203,614.70
\$201,767.05
\$199,910.17
\$198,044.00
\$196,168.50
\$194,283.62
\$192,389.32
\$190,485.55
\$188,572.26
\$186,649.40
\$184,716.93

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\$182,774.79
\$180,822.94
\$178,861.33
\$176,889.92
\$174,908.65
\$172,917.47
\$170,916.34
\$168,905.20
\$166,884.01
\$164,852.71
\$162,811.25
\$160,759.59
\$158,697.67
\$156,625.44
\$154,542.85
\$152,449.84
\$150,346.37
\$148,232.38
\$146,107.82
\$143,972.64
\$141,826.78
\$139,670.19
\$137,502.82
\$135,324.61
\$133,135.51
\$130,935.47
\$128,724.43
\$126,502.33
\$124,269.12
\$122,024.75
\$119,769.15
\$117,502.28
\$115,224.07
\$112,934.47
\$110,633.42
\$108,320.87
\$105,996.75
\$103,661.01
\$101,313.60
\$98,954.45
\$96,583.50
\$94,200.70

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\$91,805.98
\$89,399.29
\$86,980.57
\$84,549.75
\$82,106.78
\$79,651.59
\$77,184.13
\$74,704.33
\$72,212.13
\$69,707.47
\$67,190.29
\$64,660.52
\$62,118.10
\$59,562.97
\$56,995.06
\$54,414.32
\$51,820.67
\$49,214.05
\$46,594.40
\$43,961.65
\$41,315.74
\$38,656.60
\$35,984.16
\$33,298.36
\$30,599.13
\$27,886.41
\$25,160.12
\$22,420.20
\$19,666.58
\$16,899.19
\$14,117.97
\$11,322.84
\$8,513.73
\$5,690.58
\$2,853.31
\$1.86

Washington Applied Math Council

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Principal \$ 350,000.00
 Length of Loan (years) 25
 Interest Rate 6.500%

Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal
1	\$350,000.00	\$2,363.23	\$1,895.83	\$467.40
2	\$349,532.60	\$2,363.23	\$1,893.30	\$469.93
3	\$349,062.67	\$2,363.23	\$1,890.76	\$472.47
4	\$348,590.20	\$2,363.23	\$1,888.20	\$475.03
5	\$348,115.17	\$2,363.23	\$1,885.62	\$477.61
6	\$347,637.56	\$2,363.23	\$1,883.04	\$480.19
7	\$347,157.37	\$2,363.23	\$1,880.44	\$482.79
8	\$346,674.58	\$2,363.23	\$1,877.82	\$485.41
9	\$346,189.17	\$2,363.23	\$1,875.19	\$488.04
10	\$345,701.13	\$2,363.23	\$1,872.55	\$490.68
11	\$345,210.45	\$2,363.23	\$1,869.89	\$493.34
12	\$344,717.11	\$2,363.23	\$1,867.22	\$496.01
13	\$344,221.10	\$2,363.23	\$1,864.53	\$498.70
14	\$343,722.40	\$2,363.23	\$1,861.83	\$501.40
15	\$343,221.00	\$2,363.23	\$1,859.11	\$504.12
16	\$342,716.88	\$2,363.23	\$1,856.38	\$506.85
17	\$342,210.03	\$2,363.23	\$1,853.64	\$509.59
18	\$341,700.44	\$2,363.23	\$1,850.88	\$512.35
19	\$341,188.09	\$2,363.23	\$1,848.10	\$515.13
20	\$340,672.96	\$2,363.23	\$1,845.31	\$517.92
21	\$340,155.04	\$2,363.23	\$1,842.51	\$520.72
22	\$339,634.32	\$2,363.23	\$1,839.69	\$523.54
23	\$339,110.78	\$2,363.23	\$1,836.85	\$526.38
24	\$338,584.40	\$2,363.23	\$1,834.00	\$529.23
25	\$338,055.17	\$2,363.23	\$1,831.13	\$532.10
26	\$337,523.07	\$2,363.23	\$1,828.25	\$534.98
27	\$336,988.09	\$2,363.23	\$1,825.35	\$537.88
28	\$336,450.21	\$2,363.23	\$1,822.44	\$540.79
29	\$335,909.42	\$2,363.23	\$1,819.51	\$543.72
30	\$335,365.70	\$2,363.23	\$1,816.56	\$546.67
31	\$334,819.03	\$2,363.23	\$1,813.60	\$549.63
32	\$334,269.40	\$2,363.23	\$1,810.63	\$552.60
33	\$333,716.80	\$2,363.23	\$1,807.63	\$555.60
34	\$333,161.20	\$2,363.23	\$1,804.62	\$558.61
35	\$332,602.59	\$2,363.23	\$1,801.60	\$561.63
36	\$332,040.96	\$2,363.23	\$1,798.56	\$564.67

37	\$331,476.29	\$2,363.23	\$1,795.50	\$567.73
38	\$330,908.56	\$2,363.23	\$1,792.42	\$570.81
39	\$330,337.75	\$2,363.23	\$1,789.33	\$573.90
40	\$329,763.85	\$2,363.23	\$1,786.22	\$577.01
41	\$329,186.84	\$2,363.23	\$1,783.10	\$580.13
42	\$328,606.71	\$2,363.23	\$1,779.95	\$583.28
43	\$328,023.43	\$2,363.23	\$1,776.79	\$586.44
44	\$327,436.99	\$2,363.23	\$1,773.62	\$589.61
45	\$326,847.38	\$2,363.23	\$1,770.42	\$592.81
46	\$326,254.57	\$2,363.23	\$1,767.21	\$596.02
47	\$325,658.55	\$2,363.23	\$1,763.98	\$599.25
48	\$325,059.30	\$2,363.23	\$1,760.74	\$602.49
49	\$324,456.81	\$2,363.23	\$1,757.47	\$605.76
50	\$323,851.05	\$2,363.23	\$1,754.19	\$609.04
51	\$323,242.01	\$2,363.23	\$1,750.89	\$612.34
52	\$322,629.67	\$2,363.23	\$1,747.58	\$615.65
53	\$322,014.02	\$2,363.23	\$1,744.24	\$618.99
54	\$321,395.03	\$2,363.23	\$1,740.89	\$622.34
55	\$320,772.69	\$2,363.23	\$1,737.52	\$625.71
56	\$320,146.98	\$2,363.23	\$1,734.13	\$629.10
57	\$319,517.88	\$2,363.23	\$1,730.72	\$632.51
58	\$318,885.37	\$2,363.23	\$1,727.30	\$635.93
59	\$318,249.44	\$2,363.23	\$1,723.85	\$639.38
60	\$317,610.06	\$2,363.23	\$1,720.39	\$642.84
61	\$316,967.22	\$2,363.23	\$1,716.91	\$646.32
62	\$316,320.90	\$2,363.23	\$1,713.40	\$649.83
63	\$315,671.07	\$2,363.23	\$1,709.88	\$653.35
64	\$315,017.72	\$2,363.23	\$1,706.35	\$656.88
65	\$314,360.84	\$2,363.23	\$1,702.79	\$660.44
66	\$313,700.40	\$2,363.23	\$1,699.21	\$664.02
67	\$313,036.38	\$2,363.23	\$1,695.61	\$667.62
68	\$312,368.76	\$2,363.23	\$1,692.00	\$671.23
69	\$311,697.53	\$2,363.23	\$1,688.36	\$674.87
70	\$311,022.66	\$2,363.23	\$1,684.71	\$678.52
71	\$310,344.14	\$2,363.23	\$1,681.03	\$682.20
72	\$309,661.94	\$2,363.23	\$1,677.34	\$685.89
73	\$308,976.05	\$2,363.23	\$1,673.62	\$689.61
74	\$308,286.44	\$2,363.23	\$1,669.88	\$693.35
75	\$307,593.09	\$2,363.23	\$1,666.13	\$697.10
76	\$306,895.99	\$2,363.23	\$1,662.35	\$700.88
77	\$306,195.11	\$2,363.23	\$1,658.56	\$704.67
78	\$305,490.44	\$2,363.23	\$1,654.74	\$708.49

79	\$304,781.95	\$2,363.23	\$1,650.90	\$712.33
80	\$304,069.62	\$2,363.23	\$1,647.04	\$716.19
81	\$303,353.43	\$2,363.23	\$1,643.16	\$720.07
82	\$302,633.36	\$2,363.23	\$1,639.26	\$723.97
83	\$301,909.39	\$2,363.23	\$1,635.34	\$727.89
84	\$301,181.50	\$2,363.23	\$1,631.40	\$731.83
85	\$300,449.67	\$2,363.23	\$1,627.44	\$735.79
86	\$299,713.88	\$2,363.23	\$1,623.45	\$739.78
87	\$298,974.10	\$2,363.23	\$1,619.44	\$743.79
88	\$298,230.31	\$2,363.23	\$1,615.41	\$747.82
89	\$297,482.49	\$2,363.23	\$1,611.36	\$751.87
90	\$296,730.62	\$2,363.23	\$1,607.29	\$755.94
91	\$295,974.68	\$2,363.23	\$1,603.20	\$760.03
92	\$295,214.65	\$2,363.23	\$1,599.08	\$764.15
93	\$294,450.50	\$2,363.23	\$1,594.94	\$768.29
94	\$293,682.21	\$2,363.23	\$1,590.78	\$772.45
95	\$292,909.76	\$2,363.23	\$1,586.59	\$776.64
96	\$292,133.12	\$2,363.23	\$1,582.39	\$780.84
97	\$291,352.28	\$2,363.23	\$1,578.16	\$785.07
98	\$290,567.21	\$2,363.23	\$1,573.91	\$789.32
99	\$289,777.89	\$2,363.23	\$1,569.63	\$793.60
100	\$288,984.29	\$2,363.23	\$1,565.33	\$797.90
101	\$288,186.39	\$2,363.23	\$1,561.01	\$802.22
102	\$287,384.17	\$2,363.23	\$1,556.66	\$806.57
103	\$286,577.60	\$2,363.23	\$1,552.30	\$810.93
104	\$285,766.67	\$2,363.23	\$1,547.90	\$815.33
105	\$284,951.34	\$2,363.23	\$1,543.49	\$819.74
106	\$284,131.60	\$2,363.23	\$1,539.05	\$824.18
107	\$283,307.42	\$2,363.23	\$1,534.58	\$828.65
108	\$282,478.77	\$2,363.23	\$1,530.09	\$833.14
109	\$281,645.63	\$2,363.23	\$1,525.58	\$837.65
110	\$280,807.98	\$2,363.23	\$1,521.04	\$842.19
111	\$279,965.79	\$2,363.23	\$1,516.48	\$846.75
112	\$279,119.04	\$2,363.23	\$1,511.89	\$851.34
113	\$278,267.70	\$2,363.23	\$1,507.28	\$855.95
114	\$277,411.75	\$2,363.23	\$1,502.65	\$860.58
115	\$276,551.17	\$2,363.23	\$1,497.99	\$865.24
116	\$275,685.93	\$2,363.23	\$1,493.30	\$869.93
117	\$274,816.00	\$2,363.23	\$1,488.59	\$874.64
118	\$273,941.36	\$2,363.23	\$1,483.85	\$879.38
119	\$273,061.98	\$2,363.23	\$1,479.09	\$884.14
120	\$272,177.84	\$2,363.23	\$1,474.30	\$888.93

121	\$271,288.91	\$2,363.23	\$1,469.48	\$893.75
122	\$270,395.16	\$2,363.23	\$1,464.64	\$898.59
123	\$269,496.57	\$2,363.23	\$1,459.77	\$903.46
124	\$268,593.11	\$2,363.23	\$1,454.88	\$908.35
125	\$267,684.76	\$2,363.23	\$1,449.96	\$913.27
126	\$266,771.49	\$2,363.23	\$1,445.01	\$918.22
127	\$265,853.27	\$2,363.23	\$1,440.04	\$923.19
128	\$264,930.08	\$2,363.23	\$1,435.04	\$928.19
129	\$264,001.89	\$2,363.23	\$1,430.01	\$933.22
130	\$263,068.67	\$2,363.23	\$1,424.96	\$938.27
131	\$262,130.40	\$2,363.23	\$1,419.87	\$943.36
132	\$261,187.04	\$2,363.23	\$1,414.76	\$948.47
133	\$260,238.57	\$2,363.23	\$1,409.63	\$953.60
134	\$259,284.97	\$2,363.23	\$1,404.46	\$958.77
135	\$258,326.20	\$2,363.23	\$1,399.27	\$963.96
136	\$257,362.24	\$2,363.23	\$1,394.05	\$969.18
137	\$256,393.06	\$2,363.23	\$1,388.80	\$974.43
138	\$255,418.63	\$2,363.23	\$1,383.52	\$979.71
139	\$254,438.92	\$2,363.23	\$1,378.21	\$985.02
140	\$253,453.90	\$2,363.23	\$1,372.88	\$990.35
141	\$252,463.55	\$2,363.23	\$1,367.51	\$995.72
142	\$251,467.83	\$2,363.23	\$1,362.12	\$1,001.11
143	\$250,466.72	\$2,363.23	\$1,356.69	\$1,006.54
144	\$249,460.18	\$2,363.23	\$1,351.24	\$1,011.99
145	\$248,448.19	\$2,363.23	\$1,345.76	\$1,017.47
146	\$247,430.72	\$2,363.23	\$1,340.25	\$1,022.98
147	\$246,407.74	\$2,363.23	\$1,334.71	\$1,028.52
148	\$245,379.22	\$2,363.23	\$1,329.14	\$1,034.09
149	\$244,345.13	\$2,363.23	\$1,323.54	\$1,039.69
150	\$243,305.44	\$2,363.23	\$1,317.90	\$1,045.33
151	\$242,260.11	\$2,363.23	\$1,312.24	\$1,050.99
152	\$241,209.12	\$2,363.23	\$1,306.55	\$1,056.68
153	\$240,152.44	\$2,363.23	\$1,300.83	\$1,062.40
154	\$239,090.04	\$2,363.23	\$1,295.07	\$1,068.16
155	\$238,021.88	\$2,363.23	\$1,289.29	\$1,073.94
156	\$236,947.94	\$2,363.23	\$1,283.47	\$1,079.76
157	\$235,868.18	\$2,363.23	\$1,277.62	\$1,085.61
158	\$234,782.57	\$2,363.23	\$1,271.74	\$1,091.49
159	\$233,691.08	\$2,363.23	\$1,265.83	\$1,097.40
160	\$232,593.68	\$2,363.23	\$1,259.88	\$1,103.35
161	\$231,490.33	\$2,363.23	\$1,253.91	\$1,109.32
162	\$230,381.01	\$2,363.23	\$1,247.90	\$1,115.33

163	\$229,265.68	\$2,363.23	\$1,241.86	\$1,121.37
164	\$228,144.31	\$2,363.23	\$1,235.78	\$1,127.45
165	\$227,016.86	\$2,363.23	\$1,229.67	\$1,133.56
166	\$225,883.30	\$2,363.23	\$1,223.53	\$1,139.70
167	\$224,743.60	\$2,363.23	\$1,217.36	\$1,145.87
168	\$223,597.73	\$2,363.23	\$1,211.15	\$1,152.08
169	\$222,445.65	\$2,363.23	\$1,204.91	\$1,158.32
170	\$221,287.33	\$2,363.23	\$1,198.64	\$1,164.59
171	\$220,122.74	\$2,363.23	\$1,192.33	\$1,170.90
172	\$218,951.84	\$2,363.23	\$1,185.99	\$1,177.24
173	\$217,774.60	\$2,363.23	\$1,179.61	\$1,183.62
174	\$216,590.98	\$2,363.23	\$1,173.20	\$1,190.03
175	\$215,400.95	\$2,363.23	\$1,166.76	\$1,196.47
176	\$214,204.48	\$2,363.23	\$1,160.27	\$1,202.96
177	\$213,001.52	\$2,363.23	\$1,153.76	\$1,209.47
178	\$211,792.05	\$2,363.23	\$1,147.21	\$1,216.02
179	\$210,576.03	\$2,363.23	\$1,140.62	\$1,222.61
180	\$209,353.42	\$2,363.23	\$1,134.00	\$1,229.23
181	\$208,124.19	\$2,363.23	\$1,127.34	\$1,235.89
182	\$206,888.30	\$2,363.23	\$1,120.64	\$1,242.59
183	\$205,645.71	\$2,363.23	\$1,113.91	\$1,249.32
184	\$204,396.39	\$2,363.23	\$1,107.15	\$1,256.08
185	\$203,140.31	\$2,363.23	\$1,100.34	\$1,262.89
186	\$201,877.42	\$2,363.23	\$1,093.50	\$1,269.73
187	\$200,607.69	\$2,363.23	\$1,086.62	\$1,276.61
188	\$199,331.08	\$2,363.23	\$1,079.71	\$1,283.52
189	\$198,047.56	\$2,363.23	\$1,072.76	\$1,290.47
190	\$196,757.09	\$2,363.23	\$1,065.77	\$1,297.46
191	\$195,459.63	\$2,363.23	\$1,058.74	\$1,304.49
192	\$194,155.14	\$2,363.23	\$1,051.67	\$1,311.56
193	\$192,843.58	\$2,363.23	\$1,044.57	\$1,318.66
194	\$191,524.92	\$2,363.23	\$1,037.43	\$1,325.80
195	\$190,199.12	\$2,363.23	\$1,030.25	\$1,332.98
196	\$188,866.14	\$2,363.23	\$1,023.02	\$1,340.21
197	\$187,525.93	\$2,363.23	\$1,015.77	\$1,347.46
198	\$186,178.47	\$2,363.23	\$1,008.47	\$1,354.76
199	\$184,823.71	\$2,363.23	\$1,001.13	\$1,362.10
200	\$183,461.61	\$2,363.23	\$993.75	\$1,369.48
201	\$182,092.13	\$2,363.23	\$986.33	\$1,376.90
202	\$180,715.23	\$2,363.23	\$978.87	\$1,384.36
203	\$179,330.87	\$2,363.23	\$971.38	\$1,391.85
204	\$177,939.02	\$2,363.23	\$963.84	\$1,399.39

205	\$176,539.63	\$2,363.23	\$956.26	\$1,406.97
206	\$175,132.66	\$2,363.23	\$948.64	\$1,414.59
207	\$173,718.07	\$2,363.23	\$940.97	\$1,422.26
208	\$172,295.81	\$2,363.23	\$933.27	\$1,429.96
209	\$170,865.85	\$2,363.23	\$925.52	\$1,437.71
210	\$169,428.14	\$2,363.23	\$917.74	\$1,445.49
211	\$167,982.65	\$2,363.23	\$909.91	\$1,453.32
212	\$166,529.33	\$2,363.23	\$902.03	\$1,461.20
213	\$165,068.13	\$2,363.23	\$894.12	\$1,469.11
214	\$163,599.02	\$2,363.23	\$886.16	\$1,477.07
215	\$162,121.95	\$2,363.23	\$878.16	\$1,485.07
216	\$160,636.88	\$2,363.23	\$870.12	\$1,493.11
217	\$159,143.77	\$2,363.23	\$862.03	\$1,501.20
218	\$157,642.57	\$2,363.23	\$853.90	\$1,509.33
219	\$156,133.24	\$2,363.23	\$845.72	\$1,517.51
220	\$154,615.73	\$2,363.23	\$837.50	\$1,525.73
221	\$153,090.00	\$2,363.23	\$829.24	\$1,533.99
222	\$151,556.01	\$2,363.23	\$820.93	\$1,542.30
223	\$150,013.71	\$2,363.23	\$812.57	\$1,550.66
224	\$148,463.05	\$2,363.23	\$804.17	\$1,559.06
225	\$146,903.99	\$2,363.23	\$795.73	\$1,567.50
226	\$145,336.49	\$2,363.23	\$787.24	\$1,575.99
227	\$143,760.50	\$2,363.23	\$778.70	\$1,584.53
228	\$142,175.97	\$2,363.23	\$770.12	\$1,593.11
229	\$140,582.86	\$2,363.23	\$761.49	\$1,601.74
230	\$138,981.12	\$2,363.23	\$752.81	\$1,610.42
231	\$137,370.70	\$2,363.23	\$744.09	\$1,619.14
232	\$135,751.56	\$2,363.23	\$735.32	\$1,627.91
233	\$134,123.65	\$2,363.23	\$726.50	\$1,636.73
234	\$132,486.92	\$2,363.23	\$717.64	\$1,645.59
235	\$130,841.33	\$2,363.23	\$708.72	\$1,654.51
236	\$129,186.82	\$2,363.23	\$699.76	\$1,663.47
237	\$127,523.35	\$2,363.23	\$690.75	\$1,672.48
238	\$125,850.87	\$2,363.23	\$681.69	\$1,681.54
239	\$124,169.33	\$2,363.23	\$672.58	\$1,690.65
240	\$122,478.68	\$2,363.23	\$663.43	\$1,699.80
241	\$120,778.88	\$2,363.23	\$654.22	\$1,709.01
242	\$119,069.87	\$2,363.23	\$644.96	\$1,718.27
243	\$117,351.60	\$2,363.23	\$635.65	\$1,727.58
244	\$115,624.02	\$2,363.23	\$626.30	\$1,736.93
245	\$113,887.09	\$2,363.23	\$616.89	\$1,746.34
246	\$112,140.75	\$2,363.23	\$607.43	\$1,755.80

247	\$110,384.95	\$2,363.23	\$597.92	\$1,765.31
248	\$108,619.64	\$2,363.23	\$588.36	\$1,774.87
249	\$106,844.77	\$2,363.23	\$578.74	\$1,784.49
250	\$105,060.28	\$2,363.23	\$569.08	\$1,794.15
251	\$103,266.13	\$2,363.23	\$559.36	\$1,803.87
252	\$101,462.26	\$2,363.23	\$549.59	\$1,813.64
253	\$99,648.62	\$2,363.23	\$539.76	\$1,823.47
254	\$97,825.15	\$2,363.23	\$529.89	\$1,833.34
255	\$95,991.81	\$2,363.23	\$519.96	\$1,843.27
256	\$94,148.54	\$2,363.23	\$509.97	\$1,853.26
257	\$92,295.28	\$2,363.23	\$499.93	\$1,863.30
258	\$90,431.98	\$2,363.23	\$489.84	\$1,873.39
259	\$88,558.59	\$2,363.23	\$479.69	\$1,883.54
260	\$86,675.05	\$2,363.23	\$469.49	\$1,893.74
261	\$84,781.31	\$2,363.23	\$459.23	\$1,904.00
262	\$82,877.31	\$2,363.23	\$448.92	\$1,914.31
263	\$80,963.00	\$2,363.23	\$438.55	\$1,924.68
264	\$79,038.32	\$2,363.23	\$428.12	\$1,935.11
265	\$77,103.21	\$2,363.23	\$417.64	\$1,945.59
266	\$75,157.62	\$2,363.23	\$407.10	\$1,956.13
267	\$73,201.49	\$2,363.23	\$396.51	\$1,966.72
268	\$71,234.77	\$2,363.23	\$385.86	\$1,977.37
269	\$69,257.40	\$2,363.23	\$375.14	\$1,988.09
270	\$67,269.31	\$2,363.23	\$364.38	\$1,998.85
271	\$65,270.46	\$2,363.23	\$353.55	\$2,009.68
272	\$63,260.78	\$2,363.23	\$342.66	\$2,020.57
273	\$61,240.21	\$2,363.23	\$331.72	\$2,031.51
274	\$59,208.70	\$2,363.23	\$320.71	\$2,042.52
275	\$57,166.18	\$2,363.23	\$309.65	\$2,053.58
276	\$55,112.60	\$2,363.23	\$298.53	\$2,064.70
277	\$53,047.90	\$2,363.23	\$287.34	\$2,075.89
278	\$50,972.01	\$2,363.23	\$276.10	\$2,087.13
279	\$48,884.88	\$2,363.23	\$264.79	\$2,098.44
280	\$46,786.44	\$2,363.23	\$253.43	\$2,109.80
281	\$44,676.64	\$2,363.23	\$242.00	\$2,121.23
282	\$42,555.41	\$2,363.23	\$230.51	\$2,132.72
283	\$40,422.69	\$2,363.23	\$218.96	\$2,144.27
284	\$38,278.42	\$2,363.23	\$207.34	\$2,155.89
285	\$36,122.53	\$2,363.23	\$195.66	\$2,167.57
286	\$33,954.96	\$2,363.23	\$183.92	\$2,179.31
287	\$31,775.65	\$2,363.23	\$172.12	\$2,191.11
288	\$29,584.54	\$2,363.23	\$160.25	\$2,202.98

289	\$27,381.56	\$2,363.23	\$148.32	\$2,214.91
290	\$25,166.65	\$2,363.23	\$136.32	\$2,226.91
291	\$22,939.74	\$2,363.23	\$124.26	\$2,238.97
292	\$20,700.77	\$2,363.23	\$112.13	\$2,251.10
293	\$18,449.67	\$2,363.23	\$99.94	\$2,263.29
294	\$16,186.38	\$2,363.23	\$87.68	\$2,275.55
295	\$13,910.83	\$2,363.23	\$75.35	\$2,287.88
296	\$11,622.95	\$2,363.23	\$62.96	\$2,300.27
297	\$9,322.68	\$2,363.23	\$50.50	\$2,312.73
298	\$7,009.95	\$2,363.23	\$37.97	\$2,325.26
299	\$4,684.69	\$2,363.23	\$25.38	\$2,337.85
300	\$2,346.84	\$2,363.23	\$12.71	\$2,350.52

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Ending Balance

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\$347,157.37
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\$342,210.03
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\$340,155.04
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\$334,269.40
\$333,716.80
\$333,161.20
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\$332,040.96
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\$323,242.01
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\$305,490.44
\$304,781.95

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\$294,450.50
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\$234,782.57
\$233,691.08
\$232,593.68
\$231,490.33
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\$228,144.31
\$227,016.86
\$225,883.30
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\$175,132.66
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\$172,295.81
\$170,865.85
\$169,428.14
\$167,982.65
\$166,529.33
\$165,068.13
\$163,599.02
\$162,121.95
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\$159,143.77
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\$156,133.24
\$154,615.73
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\$148,463.05
\$146,903.99
\$145,336.49
\$143,760.50
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\$138,981.12
\$137,370.70
\$135,751.56
\$134,123.65
\$132,486.92
\$130,841.33
\$129,186.82
\$127,523.35
\$125,850.87
\$124,169.33
\$122,478.68
\$120,778.88
\$119,069.87
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\$110,384.95

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\$73,201.49
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\$27,381.56

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\$25,166.65
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\$13,910.83
\$11,622.95
\$9,322.68
\$7,009.95
\$4,684.69
\$2,346.84
(\$3.68)

Washington Applied Math Council

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Principal \$ 425,000.00
 Length of Loan (years) 30
 Interest Rate 3.875%

Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal
1	\$425,000.00	\$1,998.51	\$1,372.40	\$626.11
2	\$424,373.89	\$1,998.51	\$1,370.37	\$628.14
3	\$423,745.75	\$1,998.51	\$1,368.35	\$630.16
4	\$423,115.59	\$1,998.51	\$1,366.31	\$632.20
5	\$422,483.39	\$1,998.51	\$1,364.27	\$634.24
6	\$421,849.15	\$1,998.51	\$1,362.22	\$636.29
7	\$421,212.86	\$1,998.51	\$1,360.17	\$638.34
8	\$420,574.52	\$1,998.51	\$1,358.11	\$640.40
9	\$419,934.12	\$1,998.51	\$1,356.04	\$642.47
10	\$419,291.65	\$1,998.51	\$1,353.96	\$644.55
11	\$418,647.10	\$1,998.51	\$1,351.88	\$646.63
12	\$418,000.47	\$1,998.51	\$1,349.79	\$648.72
13	\$417,351.75	\$1,998.51	\$1,347.70	\$650.81
14	\$416,700.94	\$1,998.51	\$1,345.60	\$652.91
15	\$416,048.03	\$1,998.51	\$1,343.49	\$655.02
16	\$415,393.01	\$1,998.51	\$1,341.37	\$657.14
17	\$414,735.87	\$1,998.51	\$1,339.25	\$659.26
18	\$414,076.61	\$1,998.51	\$1,337.12	\$661.39
19	\$413,415.22	\$1,998.51	\$1,334.99	\$663.52
20	\$412,751.70	\$1,998.51	\$1,332.84	\$665.67
21	\$412,086.03	\$1,998.51	\$1,330.69	\$667.82
22	\$411,418.21	\$1,998.51	\$1,328.54	\$669.97
23	\$410,748.24	\$1,998.51	\$1,326.37	\$672.14
24	\$410,076.10	\$1,998.51	\$1,324.20	\$674.31
25	\$409,401.79	\$1,998.51	\$1,322.03	\$676.48
26	\$408,725.31	\$1,998.51	\$1,319.84	\$678.67
27	\$408,046.64	\$1,998.51	\$1,317.65	\$680.86
28	\$407,365.78	\$1,998.51	\$1,315.45	\$683.06
29	\$406,682.72	\$1,998.51	\$1,313.25	\$685.26
30	\$405,997.46	\$1,998.51	\$1,311.03	\$687.48
31	\$405,309.98	\$1,998.51	\$1,308.81	\$689.70
32	\$404,620.28	\$1,998.51	\$1,306.59	\$691.92
33	\$403,928.36	\$1,998.51	\$1,304.35	\$694.16
34	\$403,234.20	\$1,998.51	\$1,302.11	\$696.40
35	\$402,537.80	\$1,998.51	\$1,299.86	\$698.65
36	\$401,839.15	\$1,998.51	\$1,297.61	\$700.90

37	\$401,138.25	\$1,998.51	\$1,295.34	\$703.17
38	\$400,435.08	\$1,998.51	\$1,293.07	\$705.44
39	\$399,729.64	\$1,998.51	\$1,290.79	\$707.72
40	\$399,021.92	\$1,998.51	\$1,288.51	\$710.00
41	\$398,311.92	\$1,998.51	\$1,286.22	\$712.29
42	\$397,599.63	\$1,998.51	\$1,283.92	\$714.59
43	\$396,885.04	\$1,998.51	\$1,281.61	\$716.90
44	\$396,168.14	\$1,998.51	\$1,279.29	\$719.22
45	\$395,448.92	\$1,998.51	\$1,276.97	\$721.54
46	\$394,727.38	\$1,998.51	\$1,274.64	\$723.87
47	\$394,003.51	\$1,998.51	\$1,272.30	\$726.21
48	\$393,277.30	\$1,998.51	\$1,269.96	\$728.55
49	\$392,548.75	\$1,998.51	\$1,267.61	\$730.90
50	\$391,817.85	\$1,998.51	\$1,265.25	\$733.26
51	\$391,084.59	\$1,998.51	\$1,262.88	\$735.63
52	\$390,348.96	\$1,998.51	\$1,260.50	\$738.01
53	\$389,610.95	\$1,998.51	\$1,258.12	\$740.39
54	\$388,870.56	\$1,998.51	\$1,255.73	\$742.78
55	\$388,127.78	\$1,998.51	\$1,253.33	\$745.18
56	\$387,382.60	\$1,998.51	\$1,250.92	\$747.59
57	\$386,635.01	\$1,998.51	\$1,248.51	\$750.00
58	\$385,885.01	\$1,998.51	\$1,246.09	\$752.42
59	\$385,132.59	\$1,998.51	\$1,243.66	\$754.85
60	\$384,377.74	\$1,998.51	\$1,241.22	\$757.29
61	\$383,620.45	\$1,998.51	\$1,238.77	\$759.74
62	\$382,860.71	\$1,998.51	\$1,236.32	\$762.19
63	\$382,098.52	\$1,998.51	\$1,233.86	\$764.65
64	\$381,333.87	\$1,998.51	\$1,231.39	\$767.12
65	\$380,566.75	\$1,998.51	\$1,228.91	\$769.60
66	\$379,797.15	\$1,998.51	\$1,226.43	\$772.08
67	\$379,025.07	\$1,998.51	\$1,223.94	\$774.57
68	\$378,250.50	\$1,998.51	\$1,221.43	\$777.08
69	\$377,473.42	\$1,998.51	\$1,218.92	\$779.59
70	\$376,693.83	\$1,998.51	\$1,216.41	\$782.10
71	\$375,911.73	\$1,998.51	\$1,213.88	\$784.63
72	\$375,127.10	\$1,998.51	\$1,211.35	\$787.16
73	\$374,339.94	\$1,998.51	\$1,208.81	\$789.70
74	\$373,550.24	\$1,998.51	\$1,206.26	\$792.25
75	\$372,757.99	\$1,998.51	\$1,203.70	\$794.81
76	\$371,963.18	\$1,998.51	\$1,201.13	\$797.38
77	\$371,165.80	\$1,998.51	\$1,198.56	\$799.95
78	\$370,365.85	\$1,998.51	\$1,195.97	\$802.54

79	\$369,563.31	\$1,998.51	\$1,193.38	\$805.13
80	\$368,758.18	\$1,998.51	\$1,190.78	\$807.73
81	\$367,950.45	\$1,998.51	\$1,188.17	\$810.34
82	\$367,140.11	\$1,998.51	\$1,185.56	\$812.95
83	\$366,327.16	\$1,998.51	\$1,182.93	\$815.58
84	\$365,511.58	\$1,998.51	\$1,180.30	\$818.21
85	\$364,693.37	\$1,998.51	\$1,177.66	\$820.85
86	\$363,872.52	\$1,998.51	\$1,175.01	\$823.50
87	\$363,049.02	\$1,998.51	\$1,172.35	\$826.16
88	\$362,222.86	\$1,998.51	\$1,169.68	\$828.83
89	\$361,394.03	\$1,998.51	\$1,167.00	\$831.51
90	\$360,562.52	\$1,998.51	\$1,164.32	\$834.19
91	\$359,728.33	\$1,998.51	\$1,161.62	\$836.89
92	\$358,891.44	\$1,998.51	\$1,158.92	\$839.59
93	\$358,051.85	\$1,998.51	\$1,156.21	\$842.30
94	\$357,209.55	\$1,998.51	\$1,153.49	\$845.02
95	\$356,364.53	\$1,998.51	\$1,150.76	\$847.75
96	\$355,516.78	\$1,998.51	\$1,148.02	\$850.49
97	\$354,666.29	\$1,998.51	\$1,145.28	\$853.23
98	\$353,813.06	\$1,998.51	\$1,142.52	\$855.99
99	\$352,957.07	\$1,998.51	\$1,139.76	\$858.75
100	\$352,098.32	\$1,998.51	\$1,136.98	\$861.53
101	\$351,236.79	\$1,998.51	\$1,134.20	\$864.31
102	\$350,372.48	\$1,998.51	\$1,131.41	\$867.10
103	\$349,505.38	\$1,998.51	\$1,128.61	\$869.90
104	\$348,635.48	\$1,998.51	\$1,125.80	\$872.71
105	\$347,762.77	\$1,998.51	\$1,122.98	\$875.53
106	\$346,887.24	\$1,998.51	\$1,120.16	\$878.35
107	\$346,008.89	\$1,998.51	\$1,117.32	\$881.19
108	\$345,127.70	\$1,998.51	\$1,114.47	\$884.04
109	\$344,243.66	\$1,998.51	\$1,111.62	\$886.89
110	\$343,356.77	\$1,998.51	\$1,108.76	\$889.75
111	\$342,467.02	\$1,998.51	\$1,105.88	\$892.63
112	\$341,574.39	\$1,998.51	\$1,103.00	\$895.51
113	\$340,678.88	\$1,998.51	\$1,100.11	\$898.40
114	\$339,780.48	\$1,998.51	\$1,097.21	\$901.30
115	\$338,879.18	\$1,998.51	\$1,094.30	\$904.21
116	\$337,974.97	\$1,998.51	\$1,091.38	\$907.13
117	\$337,067.84	\$1,998.51	\$1,088.45	\$910.06
118	\$336,157.78	\$1,998.51	\$1,085.51	\$913.00
119	\$335,244.78	\$1,998.51	\$1,082.56	\$915.95
120	\$334,328.83	\$1,998.51	\$1,079.60	\$918.91

121	\$333,409.92	\$1,998.51	\$1,076.64	\$921.87
122	\$332,488.05	\$1,998.51	\$1,073.66	\$924.85
123	\$331,563.20	\$1,998.51	\$1,070.67	\$927.84
124	\$330,635.36	\$1,998.51	\$1,067.68	\$930.83
125	\$329,704.53	\$1,998.51	\$1,064.67	\$933.84
126	\$328,770.69	\$1,998.51	\$1,061.66	\$936.85
127	\$327,833.84	\$1,998.51	\$1,058.63	\$939.88
128	\$326,893.96	\$1,998.51	\$1,055.60	\$942.91
129	\$325,951.05	\$1,998.51	\$1,052.55	\$945.96
130	\$325,005.09	\$1,998.51	\$1,049.50	\$949.01
131	\$324,056.08	\$1,998.51	\$1,046.43	\$952.08
132	\$323,104.00	\$1,998.51	\$1,043.36	\$955.15
133	\$322,148.85	\$1,998.51	\$1,040.27	\$958.24
134	\$321,190.61	\$1,998.51	\$1,037.18	\$961.33
135	\$320,229.28	\$1,998.51	\$1,034.07	\$964.44
136	\$319,264.84	\$1,998.51	\$1,030.96	\$967.55
137	\$318,297.29	\$1,998.51	\$1,027.83	\$970.68
138	\$317,326.61	\$1,998.51	\$1,024.70	\$973.81
139	\$316,352.80	\$1,998.51	\$1,021.56	\$976.95
140	\$315,375.85	\$1,998.51	\$1,018.40	\$980.11
141	\$314,395.74	\$1,998.51	\$1,015.24	\$983.27
142	\$313,412.47	\$1,998.51	\$1,012.06	\$986.45
143	\$312,426.02	\$1,998.51	\$1,008.88	\$989.63
144	\$311,436.39	\$1,998.51	\$1,005.68	\$992.83
145	\$310,443.56	\$1,998.51	\$1,002.47	\$996.04
146	\$309,447.52	\$1,998.51	\$999.26	\$999.25
147	\$308,448.27	\$1,998.51	\$996.03	\$1,002.48
148	\$307,445.79	\$1,998.51	\$992.79	\$1,005.72
149	\$306,440.07	\$1,998.51	\$989.55	\$1,008.96
150	\$305,431.11	\$1,998.51	\$986.29	\$1,012.22
151	\$304,418.89	\$1,998.51	\$983.02	\$1,015.49
152	\$303,403.40	\$1,998.51	\$979.74	\$1,018.77
153	\$302,384.63	\$1,998.51	\$976.45	\$1,022.06
154	\$301,362.57	\$1,998.51	\$973.15	\$1,025.36
155	\$300,337.21	\$1,998.51	\$969.84	\$1,028.67
156	\$299,308.54	\$1,998.51	\$966.52	\$1,031.99
157	\$298,276.55	\$1,998.51	\$963.18	\$1,035.33
158	\$297,241.22	\$1,998.51	\$959.84	\$1,038.67
159	\$296,202.55	\$1,998.51	\$956.49	\$1,042.02
160	\$295,160.53	\$1,998.51	\$953.12	\$1,045.39
161	\$294,115.14	\$1,998.51	\$949.75	\$1,048.76
162	\$293,066.38	\$1,998.51	\$946.36	\$1,052.15

163	\$292,014.23	\$1,998.51	\$942.96	\$1,055.55
164	\$290,958.68	\$1,998.51	\$939.55	\$1,058.96
165	\$289,899.72	\$1,998.51	\$936.13	\$1,062.38
166	\$288,837.34	\$1,998.51	\$932.70	\$1,065.81
167	\$287,771.53	\$1,998.51	\$929.26	\$1,069.25
168	\$286,702.28	\$1,998.51	\$925.81	\$1,072.70
169	\$285,629.58	\$1,998.51	\$922.35	\$1,076.16
170	\$284,553.42	\$1,998.51	\$918.87	\$1,079.64
171	\$283,473.78	\$1,998.51	\$915.38	\$1,083.13
172	\$282,390.65	\$1,998.51	\$911.89	\$1,086.62
173	\$281,304.03	\$1,998.51	\$908.38	\$1,090.13
174	\$280,213.90	\$1,998.51	\$904.86	\$1,093.65
175	\$279,120.25	\$1,998.51	\$901.33	\$1,097.18
176	\$278,023.07	\$1,998.51	\$897.78	\$1,100.73
177	\$276,922.34	\$1,998.51	\$894.23	\$1,104.28
178	\$275,818.06	\$1,998.51	\$890.66	\$1,107.85
179	\$274,710.21	\$1,998.51	\$887.09	\$1,111.42
180	\$273,598.79	\$1,998.51	\$883.50	\$1,115.01
181	\$272,483.78	\$1,998.51	\$879.90	\$1,118.61
182	\$271,365.17	\$1,998.51	\$876.28	\$1,122.23
183	\$270,242.94	\$1,998.51	\$872.66	\$1,125.85
184	\$269,117.09	\$1,998.51	\$869.02	\$1,129.49
185	\$267,987.60	\$1,998.51	\$865.38	\$1,133.13
186	\$266,854.47	\$1,998.51	\$861.72	\$1,136.79
187	\$265,717.68	\$1,998.51	\$858.05	\$1,140.46
188	\$264,577.22	\$1,998.51	\$854.36	\$1,144.15
189	\$263,433.07	\$1,998.51	\$850.67	\$1,147.84
190	\$262,285.23	\$1,998.51	\$846.96	\$1,151.55
191	\$261,133.68	\$1,998.51	\$843.24	\$1,155.27
192	\$259,978.41	\$1,998.51	\$839.51	\$1,159.00
193	\$258,819.41	\$1,998.51	\$835.77	\$1,162.74
194	\$257,656.67	\$1,998.51	\$832.02	\$1,166.49
195	\$256,490.18	\$1,998.51	\$828.25	\$1,170.26
196	\$255,319.92	\$1,998.51	\$824.47	\$1,174.04
197	\$254,145.88	\$1,998.51	\$820.68	\$1,177.83
198	\$252,968.05	\$1,998.51	\$816.88	\$1,181.63
199	\$251,786.42	\$1,998.51	\$813.06	\$1,185.45
200	\$250,600.97	\$1,998.51	\$809.23	\$1,189.28
201	\$249,411.69	\$1,998.51	\$805.39	\$1,193.12
202	\$248,218.57	\$1,998.51	\$801.54	\$1,196.97
203	\$247,021.60	\$1,998.51	\$797.67	\$1,200.84
204	\$245,820.76	\$1,998.51	\$793.80	\$1,204.71

205	\$244,616.05	\$1,998.51	\$789.91	\$1,208.60
206	\$243,407.45	\$1,998.51	\$786.00	\$1,212.51
207	\$242,194.94	\$1,998.51	\$782.09	\$1,216.42
208	\$240,978.52	\$1,998.51	\$778.16	\$1,220.35
209	\$239,758.17	\$1,998.51	\$774.22	\$1,224.29
210	\$238,533.88	\$1,998.51	\$770.27	\$1,228.24
211	\$237,305.64	\$1,998.51	\$766.30	\$1,232.21
212	\$236,073.43	\$1,998.51	\$762.32	\$1,236.19
213	\$234,837.24	\$1,998.51	\$758.33	\$1,240.18
214	\$233,597.06	\$1,998.51	\$754.32	\$1,244.19
215	\$232,352.87	\$1,998.51	\$750.31	\$1,248.20
216	\$231,104.67	\$1,998.51	\$746.28	\$1,252.23
217	\$229,852.44	\$1,998.51	\$742.23	\$1,256.28
218	\$228,596.16	\$1,998.51	\$738.18	\$1,260.33
219	\$227,335.83	\$1,998.51	\$734.11	\$1,264.40
220	\$226,071.43	\$1,998.51	\$730.02	\$1,268.49
221	\$224,802.94	\$1,998.51	\$725.93	\$1,272.58
222	\$223,530.36	\$1,998.51	\$721.82	\$1,276.69
223	\$222,253.67	\$1,998.51	\$717.69	\$1,280.82
224	\$220,972.85	\$1,998.51	\$713.56	\$1,284.95
225	\$219,687.90	\$1,998.51	\$709.41	\$1,289.10
226	\$218,398.80	\$1,998.51	\$705.25	\$1,293.26
227	\$217,105.54	\$1,998.51	\$701.07	\$1,297.44
228	\$215,808.10	\$1,998.51	\$696.88	\$1,301.63
229	\$214,506.47	\$1,998.51	\$692.68	\$1,305.83
230	\$213,200.64	\$1,998.51	\$688.46	\$1,310.05
231	\$211,890.59	\$1,998.51	\$684.23	\$1,314.28
232	\$210,576.31	\$1,998.51	\$679.99	\$1,318.52
233	\$209,257.79	\$1,998.51	\$675.73	\$1,322.78
234	\$207,935.01	\$1,998.51	\$671.46	\$1,327.05
235	\$206,607.96	\$1,998.51	\$667.17	\$1,331.34
236	\$205,276.62	\$1,998.51	\$662.87	\$1,335.64
237	\$203,940.98	\$1,998.51	\$658.56	\$1,339.95
238	\$202,601.03	\$1,998.51	\$654.23	\$1,344.28
239	\$201,256.75	\$1,998.51	\$649.89	\$1,348.62
240	\$199,908.13	\$1,998.51	\$645.54	\$1,352.97
241	\$198,555.16	\$1,998.51	\$641.17	\$1,357.34
242	\$197,197.82	\$1,998.51	\$636.78	\$1,361.73
243	\$195,836.09	\$1,998.51	\$632.39	\$1,366.12
244	\$194,469.97	\$1,998.51	\$627.98	\$1,370.53
245	\$193,099.44	\$1,998.51	\$623.55	\$1,374.96
246	\$191,724.48	\$1,998.51	\$619.11	\$1,379.40

247	\$190,345.08	\$1,998.51	\$614.66	\$1,383.85
248	\$188,961.23	\$1,998.51	\$610.19	\$1,388.32
249	\$187,572.91	\$1,998.51	\$605.70	\$1,392.81
250	\$186,180.10	\$1,998.51	\$601.21	\$1,397.30
251	\$184,782.80	\$1,998.51	\$596.69	\$1,401.82
252	\$183,380.98	\$1,998.51	\$592.17	\$1,406.34
253	\$181,974.64	\$1,998.51	\$587.63	\$1,410.88
254	\$180,563.76	\$1,998.51	\$583.07	\$1,415.44
255	\$179,148.32	\$1,998.51	\$578.50	\$1,420.01
256	\$177,728.31	\$1,998.51	\$573.91	\$1,424.60
257	\$176,303.71	\$1,998.51	\$569.31	\$1,429.20
258	\$174,874.51	\$1,998.51	\$564.70	\$1,433.81
259	\$173,440.70	\$1,998.51	\$560.07	\$1,438.44
260	\$172,002.26	\$1,998.51	\$555.42	\$1,443.09
261	\$170,559.17	\$1,998.51	\$550.76	\$1,447.75
262	\$169,111.42	\$1,998.51	\$546.09	\$1,452.42
263	\$167,659.00	\$1,998.51	\$541.40	\$1,457.11
264	\$166,201.89	\$1,998.51	\$536.69	\$1,461.82
265	\$164,740.07	\$1,998.51	\$531.97	\$1,466.54
266	\$163,273.53	\$1,998.51	\$527.24	\$1,471.27
267	\$161,802.26	\$1,998.51	\$522.49	\$1,476.02
268	\$160,326.24	\$1,998.51	\$517.72	\$1,480.79
269	\$158,845.45	\$1,998.51	\$512.94	\$1,485.57
270	\$157,359.88	\$1,998.51	\$508.14	\$1,490.37
271	\$155,869.51	\$1,998.51	\$503.33	\$1,495.18
272	\$154,374.33	\$1,998.51	\$498.50	\$1,500.01
273	\$152,874.32	\$1,998.51	\$493.66	\$1,504.85
274	\$151,369.47	\$1,998.51	\$488.80	\$1,509.71
275	\$149,859.76	\$1,998.51	\$483.92	\$1,514.59
276	\$148,345.17	\$1,998.51	\$479.03	\$1,519.48
277	\$146,825.69	\$1,998.51	\$474.12	\$1,524.39
278	\$145,301.30	\$1,998.51	\$469.20	\$1,529.31
279	\$143,771.99	\$1,998.51	\$464.26	\$1,534.25
280	\$142,237.74	\$1,998.51	\$459.31	\$1,539.20
281	\$140,698.54	\$1,998.51	\$454.34	\$1,544.17
282	\$139,154.37	\$1,998.51	\$449.35	\$1,549.16
283	\$137,605.21	\$1,998.51	\$444.35	\$1,554.16
284	\$136,051.05	\$1,998.51	\$439.33	\$1,559.18
285	\$134,491.87	\$1,998.51	\$434.30	\$1,564.21
286	\$132,927.66	\$1,998.51	\$429.25	\$1,569.26
287	\$131,358.40	\$1,998.51	\$424.18	\$1,574.33
288	\$129,784.07	\$1,998.51	\$419.09	\$1,579.42

289	\$128,204.65	\$1,998.51	\$413.99	\$1,584.52
290	\$126,620.13	\$1,998.51	\$408.88	\$1,589.63
291	\$125,030.50	\$1,998.51	\$403.74	\$1,594.77
292	\$123,435.73	\$1,998.51	\$398.59	\$1,599.92
293	\$121,835.81	\$1,998.51	\$393.43	\$1,605.08
294	\$120,230.73	\$1,998.51	\$388.25	\$1,610.26
295	\$118,620.47	\$1,998.51	\$383.05	\$1,615.46
296	\$117,005.01	\$1,998.51	\$377.83	\$1,620.68
297	\$115,384.33	\$1,998.51	\$372.60	\$1,625.91
298	\$113,758.42	\$1,998.51	\$367.34	\$1,631.17
299	\$112,127.25	\$1,998.51	\$362.08	\$1,636.43
300	\$110,490.82	\$1,998.51	\$356.79	\$1,641.72
301	\$108,849.10	\$1,998.51	\$351.49	\$1,647.02
302	\$107,202.08	\$1,998.51	\$346.17	\$1,652.34
303	\$105,549.74	\$1,998.51	\$340.84	\$1,657.67
304	\$103,892.07	\$1,998.51	\$335.48	\$1,663.03
305	\$102,229.04	\$1,998.51	\$330.11	\$1,668.40
306	\$100,560.64	\$1,998.51	\$324.73	\$1,673.78
307	\$98,886.86	\$1,998.51	\$319.32	\$1,679.19
308	\$97,207.67	\$1,998.51	\$313.90	\$1,684.61
309	\$95,523.06	\$1,998.51	\$308.46	\$1,690.05
310	\$93,833.01	\$1,998.51	\$303.00	\$1,695.51
311	\$92,137.50	\$1,998.51	\$297.53	\$1,700.98
312	\$90,436.52	\$1,998.51	\$292.03	\$1,706.48
313	\$88,730.04	\$1,998.51	\$286.52	\$1,711.99
314	\$87,018.05	\$1,998.51	\$281.00	\$1,717.51
315	\$85,300.54	\$1,998.51	\$275.45	\$1,723.06
316	\$83,577.48	\$1,998.51	\$269.89	\$1,728.62
317	\$81,848.86	\$1,998.51	\$264.30	\$1,734.21
318	\$80,114.65	\$1,998.51	\$258.70	\$1,739.81
319	\$78,374.84	\$1,998.51	\$253.09	\$1,745.42
320	\$76,629.42	\$1,998.51	\$247.45	\$1,751.06
321	\$74,878.36	\$1,998.51	\$241.79	\$1,756.72
322	\$73,121.64	\$1,998.51	\$236.12	\$1,762.39
323	\$71,359.25	\$1,998.51	\$230.43	\$1,768.08
324	\$69,591.17	\$1,998.51	\$224.72	\$1,773.79
325	\$67,817.38	\$1,998.51	\$218.99	\$1,779.52
326	\$66,037.86	\$1,998.51	\$213.25	\$1,785.26
327	\$64,252.60	\$1,998.51	\$207.48	\$1,791.03
328	\$62,461.57	\$1,998.51	\$201.70	\$1,796.81
329	\$60,664.76	\$1,998.51	\$195.90	\$1,802.61
330	\$58,862.15	\$1,998.51	\$190.08	\$1,808.43

331	\$57,053.72	\$1,998.51	\$184.24	\$1,814.27
332	\$55,239.45	\$1,998.51	\$178.38	\$1,820.13
333	\$53,419.32	\$1,998.51	\$172.50	\$1,826.01
334	\$51,593.31	\$1,998.51	\$166.60	\$1,831.91
335	\$49,761.40	\$1,998.51	\$160.69	\$1,837.82
336	\$47,923.58	\$1,998.51	\$154.75	\$1,843.76
337	\$46,079.82	\$1,998.51	\$148.80	\$1,849.71
338	\$44,230.11	\$1,998.51	\$142.83	\$1,855.68
339	\$42,374.43	\$1,998.51	\$136.83	\$1,861.68
340	\$40,512.75	\$1,998.51	\$130.82	\$1,867.69
341	\$38,645.06	\$1,998.51	\$124.79	\$1,873.72
342	\$36,771.34	\$1,998.51	\$118.74	\$1,879.77
343	\$34,891.57	\$1,998.51	\$112.67	\$1,885.84
344	\$33,005.73	\$1,998.51	\$106.58	\$1,891.93
345	\$31,113.80	\$1,998.51	\$100.47	\$1,898.04
346	\$29,215.76	\$1,998.51	\$94.34	\$1,904.17
347	\$27,311.59	\$1,998.51	\$88.19	\$1,910.32
348	\$25,401.27	\$1,998.51	\$82.02	\$1,916.49
349	\$23,484.78	\$1,998.51	\$75.84	\$1,922.67
350	\$21,562.11	\$1,998.51	\$69.63	\$1,928.88
351	\$19,633.23	\$1,998.51	\$63.40	\$1,935.11
352	\$17,698.12	\$1,998.51	\$57.15	\$1,941.36
353	\$15,756.76	\$1,998.51	\$50.88	\$1,947.63
354	\$13,809.13	\$1,998.51	\$44.59	\$1,953.92
355	\$11,855.21	\$1,998.51	\$38.28	\$1,960.23
356	\$9,894.98	\$1,998.51	\$31.95	\$1,966.56
357	\$7,928.42	\$1,998.51	\$25.60	\$1,972.91
358	\$5,955.51	\$1,998.51	\$19.23	\$1,979.28
359	\$3,976.23	\$1,998.51	\$12.84	\$1,985.67
360	\$1,990.56	\$1,998.51	\$6.43	\$1,992.08

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Ending Balance
\$424,373.89
\$423,745.75
\$423,115.59
\$422,483.39
\$421,849.15
\$421,212.86
\$420,574.52
\$419,934.12
\$419,291.65
\$418,647.10
\$418,000.47
\$417,351.75
\$416,700.94
\$416,048.03
\$415,393.01
\$414,735.87
\$414,076.61
\$413,415.22
\$412,751.70
\$412,086.03
\$411,418.21
\$410,748.24
\$410,076.10
\$409,401.79
\$408,725.31
\$408,046.64
\$407,365.78
\$406,682.72
\$405,997.46
\$405,309.98
\$404,620.28
\$403,928.36
\$403,234.20
\$402,537.80
\$401,839.15
\$401,138.25

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\$400,435.08
\$399,729.64
\$399,021.92
\$398,311.92
\$397,599.63
\$396,885.04
\$396,168.14
\$395,448.92
\$394,727.38
\$394,003.51
\$393,277.30
\$392,548.75
\$391,817.85
\$391,084.59
\$390,348.96
\$389,610.95
\$388,870.56
\$388,127.78
\$387,382.60
\$386,635.01
\$385,885.01
\$385,132.59
\$384,377.74
\$383,620.45
\$382,860.71
\$382,098.52
\$381,333.87
\$380,566.75
\$379,797.15
\$379,025.07
\$378,250.50
\$377,473.42
\$376,693.83
\$375,911.73
\$375,127.10
\$374,339.94
\$373,550.24
\$372,757.99
\$371,963.18
\$371,165.80
\$370,365.85
\$369,563.31

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\$368,758.18
\$367,950.45
\$367,140.11
\$366,327.16
\$365,511.58
\$364,693.37
\$363,872.52
\$363,049.02
\$362,222.86
\$361,394.03
\$360,562.52
\$359,728.33
\$358,891.44
\$358,051.85
\$357,209.55
\$356,364.53
\$355,516.78
\$354,666.29
\$353,813.06
\$352,957.07
\$352,098.32
\$351,236.79
\$350,372.48
\$349,505.38
\$348,635.48
\$347,762.77
\$346,887.24
\$346,008.89
\$345,127.70
\$344,243.66
\$343,356.77
\$342,467.02
\$341,574.39
\$340,678.88
\$339,780.48
\$338,879.18
\$337,974.97
\$337,067.84
\$336,157.78
\$335,244.78
\$334,328.83
\$333,409.92

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\$332,488.05
\$331,563.20
\$330,635.36
\$329,704.53
\$328,770.69
\$327,833.84
\$326,893.96
\$325,951.05
\$325,005.09
\$324,056.08
\$323,104.00
\$322,148.85
\$321,190.61
\$320,229.28
\$319,264.84
\$318,297.29
\$317,326.61
\$316,352.80
\$315,375.85
\$314,395.74
\$313,412.47
\$312,426.02
\$311,436.39
\$310,443.56
\$309,447.52
\$308,448.27
\$307,445.79
\$306,440.07
\$305,431.11
\$304,418.89
\$303,403.40
\$302,384.63
\$301,362.57
\$300,337.21
\$299,308.54
\$298,276.55
\$297,241.22
\$296,202.55
\$295,160.53
\$294,115.14
\$293,066.38
\$292,014.23

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\$290,958.68
\$289,899.72
\$288,837.34
\$287,771.53
\$286,702.28
\$285,629.58
\$284,553.42
\$283,473.78
\$282,390.65
\$281,304.03
\$280,213.90
\$279,120.25
\$278,023.07
\$276,922.34
\$275,818.06
\$274,710.21
\$273,598.79
\$272,483.78
\$271,365.17
\$270,242.94
\$269,117.09
\$267,987.60
\$266,854.47
\$265,717.68
\$264,577.22
\$263,433.07
\$262,285.23
\$261,133.68
\$259,978.41
\$258,819.41
\$257,656.67
\$256,490.18
\$255,319.92
\$254,145.88
\$252,968.05
\$251,786.42
\$250,600.97
\$249,411.69
\$248,218.57
\$247,021.60
\$245,820.76
\$244,616.05

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\$243,407.45
\$242,194.94
\$240,978.52
\$239,758.17
\$238,533.88
\$237,305.64
\$236,073.43
\$234,837.24
\$233,597.06
\$232,352.87
\$231,104.67
\$229,852.44
\$228,596.16
\$227,335.83
\$226,071.43
\$224,802.94
\$223,530.36
\$222,253.67
\$220,972.85
\$219,687.90
\$218,398.80
\$217,105.54
\$215,808.10
\$214,506.47
\$213,200.64
\$211,890.59
\$210,576.31
\$209,257.79
\$207,935.01
\$206,607.96
\$205,276.62
\$203,940.98
\$202,601.03
\$201,256.75
\$199,908.13
\$198,555.16
\$197,197.82
\$195,836.09
\$194,469.97
\$193,099.44
\$191,724.48
\$190,345.08

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\$188,961.23
\$187,572.91
\$186,180.10
\$184,782.80
\$183,380.98
\$181,974.64
\$180,563.76
\$179,148.32
\$177,728.31
\$176,303.71
\$174,874.51
\$173,440.70
\$172,002.26
\$170,559.17
\$169,111.42
\$167,659.00
\$166,201.89
\$164,740.07
\$163,273.53
\$161,802.26
\$160,326.24
\$158,845.45
\$157,359.88
\$155,869.51
\$154,374.33
\$152,874.32
\$151,369.47
\$149,859.76
\$148,345.17
\$146,825.69
\$145,301.30
\$143,771.99
\$142,237.74
\$140,698.54
\$139,154.37
\$137,605.21
\$136,051.05
\$134,491.87
\$132,927.66
\$131,358.40
\$129,784.07
\$128,204.65

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\$126,620.13
\$125,030.50
\$123,435.73
\$121,835.81
\$120,230.73
\$118,620.47
\$117,005.01
\$115,384.33
\$113,758.42
\$112,127.25
\$110,490.82
\$108,849.10
\$107,202.08
\$105,549.74
\$103,892.07
\$102,229.04
\$100,560.64
\$98,886.86
\$97,207.67
\$95,523.06
\$93,833.01
\$92,137.50
\$90,436.52
\$88,730.04
\$87,018.05
\$85,300.54
\$83,577.48
\$81,848.86
\$80,114.65
\$78,374.84
\$76,629.42
\$74,878.36
\$73,121.64
\$71,359.25
\$69,591.17
\$67,817.38
\$66,037.86
\$64,252.60
\$62,461.57
\$60,664.76
\$58,862.15
\$57,053.72

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\$55,239.45
\$53,419.32
\$51,593.31
\$49,761.40
\$47,923.58
\$46,079.82
\$44,230.11
\$42,374.43
\$40,512.75
\$38,645.06
\$36,771.34
\$34,891.57
\$33,005.73
\$31,113.80
\$29,215.76
\$27,311.59
\$25,401.27
\$23,484.78
\$21,562.11
\$19,633.23
\$17,698.12
\$15,756.76
\$13,809.13
\$11,855.21
\$9,894.98
\$7,928.42
\$5,955.51
\$3,976.23
\$1,990.56
(\$1.52)

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This quiz focuses on the components of building an amortization table for a loan. You are considering the purchase of a \$238,500 home with a 30-year loan at 5.25% and 15% down. Show your work by setting up your formulas below, and then do calculations on a calculator. Check for reasonableness before transferring amounts to the quiz.

1. How much is the down payment (\$) for this loan?

2. What is the principal for this loan?

3. Use the monthly payment formula provided to calculate the monthly payment.

Note: Show your setup by rewriting the formula with the required substitutions below.

$$M = \frac{P \left(\frac{r}{12} \right) \left(1 + \frac{r}{12} \right)^{12t}}{\left(1 + \frac{r}{12} \right)^{12t} - 1}$$

4. Determine the amount of the 1st payment applied towards interest.

5. Given your solutions above, determine the amount of the 1st payment applied towards principal.

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Key

1. $238500 \cdot .15 = \$35,775$
2. $238,500 - 35775 = \$202,725$ OR $238,500 \cdot .85 = \$202,725$

```
238500*.15      35775
238500-35775    202725
238500*.85      202725
```

3. $P = \$202,725$
 $r = 0.0525$
 $t = 30$
 $\$1,119.45$

```
N=360
I%=5.25
PV=202725
PMT=-1119.4549...
FV=0
P/Y=12
C/Y=12
PMT: [ ] BEGIN
```

4. $i = prt$

$$i = (202725)(0.0525)\left(\frac{1}{12}\right)$$

```
(202725)(.0525)(
1/12)
886.921875
■
```

$$i = 886.92$$

5. principal applied = payment - interest
 $\$232.53$

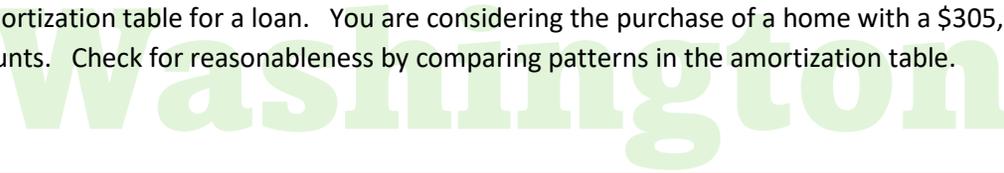
```
1119.45-886.92
232.53
```

	A	B	C	D	E	F
1	Principal	202725				
2	Annual Interest Rate	5.250%				
3	Length of Loan (years)	30				
4						
5	Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal	Ending Balance
6	1	\$202,725.00	\$1,119.45	\$886.92	\$232.53	\$202,492.47
7	2	\$202,492.47	\$1,118.17	\$885.90	\$232.27	\$202,260.21
8	3	\$202,260.21	\$1,116.89	\$884.89	\$232.00	\$202,028.20
9	4	\$202,028.20	\$1,115.61	\$883.87	\$231.74	\$201,796.47
10	5	\$201,796.47	\$1,114.33	\$882.86	\$231.47	\$201,565.00
11	6	\$201,565.00	\$1,113.05	\$881.85	\$231.20	\$201,333.79

Math Council

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This quiz focuses on completing an amortization table for a loan. You are considering the purchase of a home with a \$305,000 loan for 30-years at 5.25%. Fill in the blanks with the correct amounts. Check for reasonableness by comparing patterns in the amortization table.

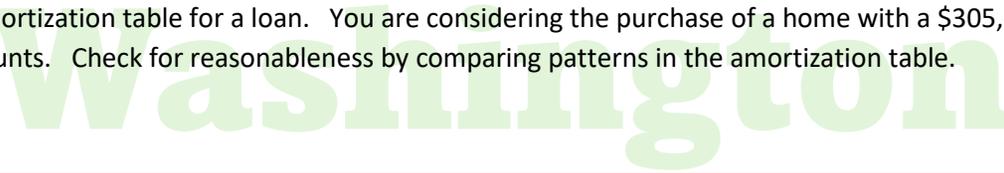


	A	B	C	D	E	F
1	Principal	\$ 305,000.00				
2	Annual Interest Rate	5.500%				
3	Length of Loan (years)	20				
4						
5	Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal	Ending Balance
6	1			\$1,397.92		\$304,299.86
7	2	\$304,299.86	\$2,098.06		\$703.35	\$303,596.51
8	3	\$303,596.51		\$1,391.48		
9	4	\$302,889.93		\$1,388.25	\$709.81	\$302,180.12
10	5				\$713.07	\$301,467.05
11	6	\$301,467.05		\$1,381.72	\$716.34	

This quiz focuses on completing an amortization table for a loan. You are considering the purchase of a home with a \$305,000 loan for 30-years at 5.25%. Fill in the blanks with the correct amounts. Check for reasonableness by comparing patterns in the amortization table.

	A	B	C	D	E	F
1	Principal	\$ 285,480.00				
2	Annual Interest Rate	6.250%				
3	Length of Loan (years)	20				
4						
5	Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal	Ending Balance
6	1			\$1,486.88		\$284,880.23
7	2	\$284,880.23	\$2,086.65		\$602.90	\$284,277.33
8	3	\$284,277.33		\$1,480.61		
9	4	\$283,671.29		\$1,477.45	\$609.20	\$283,062.09
10	5				\$612.37	\$282,449.72
11	6	\$282,449.72		\$1,471.09	\$615.56	

This quiz focuses on completing an amortization table for a loan. You are considering the purchase of a home with a \$305,000 loan for 30-years at 5.25%. Fill in the blanks with the correct amounts. Check for reasonableness by comparing patterns in the amortization table.



	A	B	C	D	E	F
1	Principal	\$ 395,000.00				
2	Annual Interest Rate	4.875%				
3	Length of Loan (years)	25				
4						
5	Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal	Ending Balance
6	1	\$395,000.00	\$2,280.46	\$1,604.69	\$675.77	
7	2			\$1,601.94	\$678.52	\$393,645.71
8	3	\$393,645.71	\$2,280.46	\$1,599.19	\$681.27	\$392,964.44
9	4				\$684.04	\$392,280.40
10	5	\$392,280.40	\$2,280.46	\$1,593.64		
11	6	\$391,593.58	\$2,280.46			\$390,903.97

This quiz focuses on completing an amortization table for a loan. You are considering the purchase of a home with a \$305,000 loan for 30-years at 5.25%. Fill in the blanks with the correct amounts. Check for reasonableness by comparing patterns in the amortization table.

	A	B	C	D	E	F
1	Principal	\$ 189,250.00				
2	Annual Interest Rate	4.750%				
3	Length of Loan (years)	15				
4						
5	Payment #	Beginning Balance	Monthly Payment	Towards Interest	Towards Principal	Ending Balance
6	1	\$189,250.00	\$1,472.05	\$749.11	\$722.94	
7	2			\$746.25	\$725.80	
8	3	\$187,801.26		\$743.38		\$187,072.59
9	4		\$1,472.05		\$731.55	\$186,341.04
10	5	\$186,341.04		\$737.60	\$734.45	
11	6	\$185,606.59				\$184,869.23

Principal \$ 305,000.00
Annual Interest Rate 5.250%
Length of Loan (years) 30

Payment #	Beginning Balance	Monthly Payment	Towards Interest
1	\$305,000.00	\$1,684.22	\$1,334.38
2	\$304,650.16	\$1,684.22	\$1,332.84
3	\$304,298.78	\$1,684.22	\$1,331.31
4	\$303,945.87	\$1,684.22	\$1,329.76
5	\$303,591.41	\$1,684.22	\$1,328.21
6	\$303,235.40	\$1,684.22	\$1,326.65

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Towards Principal	Ending Balance
\$349.84	\$304,650.16
\$351.38	\$304,298.78
\$352.91	\$303,945.87
\$354.46	\$303,591.41
\$356.01	\$303,235.40
\$357.57	\$302,877.83

To the left is a template that can be the answer key. Change the principal #s, annual interest rate and length of loan for different versions of the test.

To "white out" the formulas select INSERT>> SHAPES >> (select the Rectangle)>>(drag to create the size needed)>> (right click for SIZE AND PROPERTIES) >> Line Color (select No Line)>>FILL (select no Fill)

Then move these white out boxes to cover any #s you want students to fill in.

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Principal \$ 285,480.00
Annual Interest Rate 6.250%
Length of Loan (years) 20

Payment #	Beginning Balance	Monthly Payment	Towards Interest
1			\$1,486.88
2	\$284,880.23	\$2,086.65	
3	\$284,277.33		\$1,480.61
4	\$283,671.29		\$1,477.45
5			
6	\$282,449.72		\$1,471.09

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Towards Principal	Ending Balance
	\$284,880.23
\$602.90	\$284,277.33
\$609.20	\$283,062.09
\$612.37	\$282,449.72
\$615.56	

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Principal \$ 395,000.00
Annual Interest Rate 4.875%
Length of Loan (years) 25

Payment #	Beginning Balance	Monthly Payment	Towards Interest
1	\$395,000.00	\$2,280.46	\$1,604.69
2			\$1,601.94
3	\$393,645.71	\$2,280.46	\$1,599.19
4			
5	\$392,280.40	\$2,280.46	\$1,593.64
6	\$391,593.58	\$2,280.46	

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Towards Principal	Ending Balance
\$675.77	
\$678.52	\$393,645.71
\$681.27	\$392,964.44
\$684.04	\$392,280.40
	\$390,903.97

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Principal \$ 189,250.00
Annual Interest Rate 4.750%
Length of Loan (years) 15

Payment #	Beginning Balance	Monthly Payment	Towards Interest
1	\$189,250.00	\$1,472.05	\$749.11
2			\$746.25
3	\$187,801.26		\$743.38
4		\$1,472.05	
5	\$186,341.04		\$737.60
6	\$185,606.59		

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Towards Principal	Ending Balance
\$722.94	
\$725.80	
	\$187,072.59
\$731.55	\$186,341.04
\$734.45	
	\$184,869.23

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Financial Algebra Quiz – Unit 8 Lesson 4 Quiz # 3

Name _____ Date _____ Per _____

This quiz focuses on completing an amortization table for an ARM with extra principal payments to pay the loan off faster. You are considering the purchase of a home with a 15-year \$300,000 loan and an initial rate of 5%. Assume your ARM rate adjusts up 1% after the first year (12 monthly payments) and that the ARM adjusts yet again up another 1% after the 2nd year (12 more monthly payments, 24 total payments to date). You may fill in the blanks with the correct amounts or reference the cells (ex. C16=____, E16=____, E18=____) on a separate sheet. Check for reasonableness by comparing patterns in the amortization table, but watch the interest rate changes carefully.

	A	B	C	D	E	F	G	H	I
1	Principal	\$ 300,000.00							
2	Length of Loan (years)	15							
4	Payment #	Beginning Balance	Monthly Payment	Extra Principal	Towards Interest	Towards Principal	Ending Balance	Interest Rate (Annual - adjusted)	# years of loan @ current rate
15	11	\$288,563.40	\$2,372.38	\$0.00	\$1,202.35	\$1,170.03	\$287,393.37	5.0%	15
16	12	\$287,393.37		\$0.00		\$1,174.91	\$286,218.46	5.0%	15
17	13	\$286,218.46	\$2,522.26	\$0.00	\$1,431.09	\$1,091.17	\$285,127.29	6.0%	14
18	14	\$285,127.29	\$2,522.26	\$0.00		\$1,096.62	\$284,030.67	6.0%	14
19	15	\$284,030.67	\$2,522.26		\$1,420.15	\$1,102.11	\$282,928.56	6.0%	14
20	16	\$282,928.56		\$0.00	\$1,414.64	\$1,107.62		6.0%	14
21	17		\$2,522.26	\$0.00	\$1,409.10	\$1,113.16	\$280,707.78	6.0%	14
22	18	\$280,707.78	\$2,522.26	\$100.00		\$1,118.72	\$279,489.06	6.0%	14
23	19	\$279,489.06	\$2,522.26	\$100.00	\$1,397.45	\$1,124.81	\$278,264.25	6.0%	14
24	20			\$100.00	\$1,391.32	\$1,130.94		6.0%	14
25	21	\$277,033.31	\$2,522.26			\$1,137.09	\$275,796.22	6.0%	14
26	22	\$275,796.22	\$2,522.26	\$100.00	\$1,378.98		\$274,552.94	6.0%	14
27	23		\$2,522.26	\$100.00		\$1,149.50		6.0%	14
28	24	\$273,303.44	\$2,522.26	\$100.00	\$1,366.52		\$272,047.70	6.0%	14
29	25	\$272,047.70	\$2,660.83	\$100.00	\$1,586.94	\$1,073.89		7.0%	13
30	26	\$270,873.81			\$1,580.10	\$1,080.73	\$269,693.08	7.0%	13
31	27	\$269,693.08			\$1,573.21	\$1,087.62	\$268,505.46	7.0%	13

Principal	\$	300,000.00
Length of Loan (years)		15

Payment #	Beginning Balance	Monthly Payment	Extra Principal
11	\$288,563.40	\$2,372.38	\$0.00
12	\$287,393.37		\$0.00
13	\$286,218.46	\$2,522.26	\$0.00
14	\$285,127.29	\$2,522.26	\$0.00
15	\$284,030.67	\$2,522.26	
16	\$282,928.56		\$0.00
17		\$2,522.26	\$0.00
18	\$280,707.78	\$2,522.26	\$100.00
19	\$279,489.06	\$2,522.26	\$100.00
20			\$100.00
21	\$277,033.31	\$2,522.26	
22	\$275,796.22	\$2,522.26	\$100.00
23		\$2,522.26	\$100.00
24	\$273,303.44	\$2,522.26	\$100.00
25	\$272,047.70	\$2,660.83	\$100.00
26	\$270,873.81		
27	\$269,693.08		
28	\$268,505.46	\$2,660.83	\$100.00
29	\$267,310.91	\$2,660.83	\$100.00
30	\$266,109.39	\$2,660.83	\$100.00
31	\$264,900.86	\$2,660.83	\$0.00
32	\$263,785.29	\$2,660.83	\$0.00
33	\$262,663.21	\$2,660.83	\$0.00
34	\$261,534.58	\$2,660.83	\$0.00
35	\$260,399.37	\$2,660.83	\$0.00
36	\$259,257.54	\$2,660.83	\$0.00
37	\$258,109.05	\$2,660.83	\$0.00
38	\$256,953.86	\$2,660.83	\$0.00
39	\$255,791.93	\$2,660.83	\$0.00
40	\$254,623.22	\$2,660.83	\$0.00
41	\$253,447.69	\$2,660.83	\$0.00

42	\$252,265.30	\$2,660.83	\$0.00
43	\$251,076.02	\$2,660.83	\$0.00
44	\$249,879.80	\$2,660.83	\$0.00
45	\$248,676.60	\$2,660.83	\$0.00
46	\$247,466.38	\$2,660.83	\$0.00
47	\$246,249.10	\$2,660.83	\$0.00
48	\$245,024.72	\$2,660.83	\$0.00
49	\$243,793.20	\$2,660.83	\$0.00
50	\$242,554.50	\$2,660.83	\$0.00
51	\$241,308.57	\$2,660.83	\$0.00
52	\$240,055.37	\$2,660.83	\$0.00
53	\$238,794.86	\$2,660.83	\$0.00
54	\$237,527.00	\$2,660.83	\$0.00
55	\$236,251.74	\$2,660.83	\$0.00
56	\$234,969.05	\$2,660.83	\$0.00
57	\$233,678.87	\$2,660.83	\$0.00
58	\$232,381.17	\$2,660.83	\$0.00
59	\$231,075.90	\$2,660.83	\$0.00
60	\$229,763.01	\$2,660.83	\$0.00
61	\$228,442.46	\$2,660.83	\$0.00
62	\$227,114.21	\$2,660.83	\$0.00
63	\$225,778.21	\$2,660.83	\$0.00
64	\$224,434.42	\$2,660.83	\$0.00
65	\$223,082.79	\$2,660.83	\$0.00
66	\$221,723.28	\$2,660.83	\$0.00
67	\$220,355.84	\$2,660.83	\$0.00
68	\$218,980.42	\$2,660.83	\$0.00
69	\$217,596.98	\$2,660.83	\$0.00
70	\$216,205.47	\$2,660.83	\$0.00
71	\$214,805.84	\$2,660.83	\$0.00
72	\$213,398.04	\$2,660.83	\$0.00
73	\$211,982.03	\$2,660.83	\$0.00
74	\$210,557.76	\$2,660.83	\$0.00
75	\$209,125.18	\$2,660.83	\$0.00
76	\$207,684.25	\$2,660.83	\$0.00
77	\$206,234.91	\$2,660.83	\$0.00
78	\$204,777.12	\$2,660.83	\$0.00
79	\$203,310.82	\$2,660.83	\$0.00
80	\$201,835.97	\$2,660.83	\$0.00
81	\$200,352.52	\$2,660.83	\$0.00
82	\$198,860.41	\$2,660.83	\$0.00
83	\$197,359.60	\$2,660.83	\$0.00

84	\$195,850.03	\$2,660.83	\$0.00
85	\$194,331.66	\$2,660.83	\$0.00
86	\$192,804.43	\$2,660.83	\$0.00
87	\$191,268.29	\$2,660.83	\$0.00
88	\$189,723.19	\$2,660.83	\$0.00
89	\$188,169.08	\$2,660.83	\$0.00
90	\$186,605.90	\$2,660.83	\$0.00
91	\$185,033.60	\$2,660.83	\$0.00
92	\$183,452.13	\$2,660.83	\$0.00
93	\$181,861.44	\$2,660.83	\$0.00
94	\$180,261.47	\$2,660.83	\$0.00
95	\$178,652.17	\$2,660.83	\$0.00
96	\$177,033.48	\$2,660.83	\$0.00
97	\$175,405.35	\$2,660.83	\$0.00
98	\$173,767.72	\$2,660.83	\$0.00
99	\$172,120.54	\$2,660.83	\$0.00
100	\$170,463.75	\$2,660.83	\$0.00
101	\$168,797.29	\$2,660.83	\$0.00
102	\$167,121.11	\$2,660.83	\$0.00
103	\$165,435.15	\$2,660.83	\$0.00
104	\$163,739.36	\$2,660.83	\$0.00
105	\$162,033.68	\$2,660.83	\$0.00
106	\$160,318.05	\$2,660.83	\$0.00
107	\$158,592.41	\$2,660.83	\$0.00
108	\$156,856.70	\$2,660.83	\$0.00
109	\$155,110.87	\$2,660.83	\$0.00
110	\$153,354.85	\$2,660.83	\$0.00
111	\$151,588.59	\$2,660.83	\$0.00
112	\$149,812.03	\$2,660.83	\$0.00
113	\$148,025.10	\$2,660.83	\$0.00
114	\$146,227.75	\$2,660.83	\$0.00
115	\$144,419.92	\$2,660.83	\$0.00
116	\$142,601.54	\$2,660.83	\$0.00
117	\$140,772.55	\$2,660.83	\$0.00
118	\$138,932.89	\$2,660.83	\$0.00
119	\$137,082.50	\$2,660.83	\$0.00
120	\$135,221.32	\$2,660.83	\$0.00
121	\$133,349.28	\$2,660.83	\$0.00
122	\$131,466.32	\$2,660.83	\$0.00
123	\$129,572.38	\$2,660.83	\$0.00
124	\$127,667.39	\$2,660.83	\$0.00
125	\$125,751.29	\$2,660.83	\$0.00

126	\$123,824.01	\$2,660.83	\$0.00
127	\$121,885.49	\$2,660.83	\$0.00
128	\$119,935.66	\$2,660.83	\$0.00
129	\$117,974.45	\$2,660.83	\$0.00
130	\$116,001.80	\$2,660.83	\$0.00
131	\$114,017.65	\$2,660.83	\$0.00
132	\$112,021.92	\$2,660.83	\$0.00
133	\$110,014.55	\$2,660.83	\$0.00
134	\$107,995.47	\$2,660.83	\$0.00
135	\$105,964.61	\$2,660.83	\$0.00
136	\$103,921.91	\$2,660.83	\$0.00
137	\$101,867.29	\$2,660.83	\$0.00
138	\$99,800.69	\$2,660.83	\$0.00
139	\$97,722.03	\$2,660.83	\$0.00
140	\$95,631.25	\$2,660.83	\$0.00
141	\$93,528.27	\$2,660.83	\$0.00
142	\$91,413.02	\$2,660.83	\$0.00
143	\$89,285.43	\$2,660.83	\$0.00
144	\$87,145.43	\$2,660.83	\$0.00
145	\$84,992.95	\$2,660.83	\$0.00
146	\$82,827.91	\$2,660.83	\$0.00
147	\$80,650.24	\$2,660.83	\$0.00
148	\$78,459.87	\$2,660.83	\$0.00
149	\$76,256.72	\$2,660.83	\$0.00
150	\$74,040.72	\$2,660.83	\$0.00
151	\$71,811.79	\$2,660.83	\$0.00
152	\$69,569.86	\$2,660.83	\$0.00
153	\$67,314.85	\$2,660.83	\$0.00
154	\$65,046.69	\$2,660.83	\$0.00
155	\$62,765.30	\$2,660.83	\$0.00
156	\$60,470.60	\$2,660.83	\$0.00
157	\$58,162.52	\$2,660.83	\$0.00
158	\$55,840.97	\$2,660.83	\$0.00
159	\$53,505.88	\$2,660.83	\$0.00
160	\$51,157.17	\$2,660.83	\$0.00
161	\$48,794.76	\$2,660.83	\$0.00
162	\$46,418.57	\$2,660.83	\$0.00
163	\$44,028.51	\$2,660.83	\$0.00
164	\$41,624.51	\$2,660.83	\$0.00
165	\$39,206.49	\$2,660.83	\$0.00
166	\$36,774.36	\$2,660.83	\$0.00
167	\$34,328.05	\$2,660.83	\$0.00

168	\$31,867.47	\$2,660.83	\$0.00
169	\$29,392.53	\$2,660.83	\$0.00
170	\$26,903.16	\$2,660.83	\$0.00
171	\$24,399.27	\$2,660.83	\$0.00
172	\$21,880.77	\$2,660.83	\$0.00
173	\$19,347.58	\$2,660.83	\$0.00
174	\$16,799.61	\$2,660.83	\$0.00
175	\$14,236.78	\$2,660.83	\$0.00
176	\$11,659.00	\$2,660.83	\$0.00
177	\$9,066.18	\$2,660.83	\$0.00
178	\$6,458.24	\$2,660.83	\$0.00
179	\$3,835.08	\$2,660.83	\$0.00
180	\$1,196.62	\$2,660.83	\$0.00

Math Council

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Towards Interest	Towards Principal	Ending Balance	Interest Rate (Annual - adjusted)
\$1,202.35	\$1,170.03	\$287,393.37	5.0%
	\$1,174.91	\$286,218.46	5.0%
\$1,431.09	\$1,091.17	\$285,127.29	6.0%
	\$1,096.62	\$284,030.67	6.0%
\$1,420.15	\$1,102.11	\$282,928.56	6.0%
\$1,414.64	\$1,107.62		6.0%
\$1,409.10	\$1,113.16	\$280,707.78	6.0%
	\$1,118.72	\$279,489.06	6.0%
\$1,397.45	\$1,124.81	\$278,264.25	6.0%
\$1,391.32	\$1,130.94		6.0%
	\$1,137.09	\$275,796.22	6.0%
\$1,378.98		\$274,552.94	6.0%
	\$1,149.50		6.0%
\$1,366.52		\$272,047.70	6.0%
\$1,586.94	\$1,073.89		7.0%
\$1,580.10	\$1,080.73	\$269,693.08	7.0%
\$1,573.21	\$1,087.62	\$268,505.46	7.0%
\$1,566.28	\$1,094.55	\$267,310.91	7.0%
\$1,559.31	\$1,101.52	\$266,109.39	7.0%
\$1,552.30	\$1,108.53	\$264,900.86	7.0%
\$1,545.26	\$1,115.57	\$263,785.29	7.0%
\$1,538.75	\$1,122.08	\$262,663.21	7.0%
\$1,532.20	\$1,128.63	\$261,534.58	7.0%
\$1,525.62	\$1,135.21	\$260,399.37	7.0%
\$1,519.00	\$1,141.83	\$259,257.54	7.0%
\$1,512.34	\$1,148.49	\$258,109.05	7.0%
\$1,505.64	\$1,155.19	\$256,953.86	7.0%
\$1,498.90	\$1,161.93	\$255,791.93	7.0%
\$1,492.12	\$1,168.71	\$254,623.22	7.0%
\$1,485.30	\$1,175.53	\$253,447.69	7.0%
\$1,478.44	\$1,182.39	\$252,265.30	7.0%

\$1,471.55	\$1,189.28	\$251,076.02	7.0%
\$1,464.61	\$1,196.22	\$249,879.80	7.0%
\$1,457.63	\$1,203.20	\$248,676.60	7.0%
\$1,450.61	\$1,210.22	\$247,466.38	7.0%
\$1,443.55	\$1,217.28	\$246,249.10	7.0%
\$1,436.45	\$1,224.38	\$245,024.72	7.0%
\$1,429.31	\$1,231.52	\$243,793.20	7.0%
\$1,422.13	\$1,238.70	\$242,554.50	7.0%
\$1,414.90	\$1,245.93	\$241,308.57	7.0%
\$1,407.63	\$1,253.20	\$240,055.37	7.0%
\$1,400.32	\$1,260.51	\$238,794.86	7.0%
\$1,392.97	\$1,267.86	\$237,527.00	7.0%
\$1,385.57	\$1,275.26	\$236,251.74	7.0%
\$1,378.14	\$1,282.69	\$234,969.05	7.0%
\$1,370.65	\$1,290.18	\$233,678.87	7.0%
\$1,363.13	\$1,297.70	\$232,381.17	7.0%
\$1,355.56	\$1,305.27	\$231,075.90	7.0%
\$1,347.94	\$1,312.89	\$229,763.01	7.0%
\$1,340.28	\$1,320.55	\$228,442.46	7.0%
\$1,332.58	\$1,328.25	\$227,114.21	7.0%
\$1,324.83	\$1,336.00	\$225,778.21	7.0%
\$1,317.04	\$1,343.79	\$224,434.42	7.0%
\$1,309.20	\$1,351.63	\$223,082.79	7.0%
\$1,301.32	\$1,359.51	\$221,723.28	7.0%
\$1,293.39	\$1,367.44	\$220,355.84	7.0%
\$1,285.41	\$1,375.42	\$218,980.42	7.0%
\$1,277.39	\$1,383.44	\$217,596.98	7.0%
\$1,269.32	\$1,391.51	\$216,205.47	7.0%
\$1,261.20	\$1,399.63	\$214,805.84	7.0%
\$1,253.03	\$1,407.80	\$213,398.04	7.0%
\$1,244.82	\$1,416.01	\$211,982.03	7.0%
\$1,236.56	\$1,424.27	\$210,557.76	7.0%
\$1,228.25	\$1,432.58	\$209,125.18	7.0%
\$1,219.90	\$1,440.93	\$207,684.25	7.0%
\$1,211.49	\$1,449.34	\$206,234.91	7.0%
\$1,203.04	\$1,457.79	\$204,777.12	7.0%
\$1,194.53	\$1,466.30	\$203,310.82	7.0%
\$1,185.98	\$1,474.85	\$201,835.97	7.0%
\$1,177.38	\$1,483.45	\$200,352.52	7.0%
\$1,168.72	\$1,492.11	\$198,860.41	7.0%
\$1,160.02	\$1,500.81	\$197,359.60	7.0%
\$1,151.26	\$1,509.57	\$195,850.03	7.0%

\$1,142.46	\$1,518.37	\$194,331.66	7.0%
\$1,133.60	\$1,527.23	\$192,804.43	7.0%
\$1,124.69	\$1,536.14	\$191,268.29	7.0%
\$1,115.73	\$1,545.10	\$189,723.19	7.0%
\$1,106.72	\$1,554.11	\$188,169.08	7.0%
\$1,097.65	\$1,563.18	\$186,605.90	7.0%
\$1,088.53	\$1,572.30	\$185,033.60	7.0%
\$1,079.36	\$1,581.47	\$183,452.13	7.0%
\$1,070.14	\$1,590.69	\$181,861.44	7.0%
\$1,060.86	\$1,599.97	\$180,261.47	7.0%
\$1,051.53	\$1,609.30	\$178,652.17	7.0%
\$1,042.14	\$1,618.69	\$177,033.48	7.0%
\$1,032.70	\$1,628.13	\$175,405.35	7.0%
\$1,023.20	\$1,637.63	\$173,767.72	7.0%
\$1,013.65	\$1,647.18	\$172,120.54	7.0%
\$1,004.04	\$1,656.79	\$170,463.75	7.0%
\$994.37	\$1,666.46	\$168,797.29	7.0%
\$984.65	\$1,676.18	\$167,121.11	7.0%
\$974.87	\$1,685.96	\$165,435.15	7.0%
\$965.04	\$1,695.79	\$163,739.36	7.0%
\$955.15	\$1,705.68	\$162,033.68	7.0%
\$945.20	\$1,715.63	\$160,318.05	7.0%
\$935.19	\$1,725.64	\$158,592.41	7.0%
\$925.12	\$1,735.71	\$156,856.70	7.0%
\$915.00	\$1,745.83	\$155,110.87	7.0%
\$904.81	\$1,756.02	\$153,354.85	7.0%
\$894.57	\$1,766.26	\$151,588.59	7.0%
\$884.27	\$1,776.56	\$149,812.03	7.0%
\$873.90	\$1,786.93	\$148,025.10	7.0%
\$863.48	\$1,797.35	\$146,227.75	7.0%
\$853.00	\$1,807.83	\$144,419.92	7.0%
\$842.45	\$1,818.38	\$142,601.54	7.0%
\$831.84	\$1,828.99	\$140,772.55	7.0%
\$821.17	\$1,839.66	\$138,932.89	7.0%
\$810.44	\$1,850.39	\$137,082.50	7.0%
\$799.65	\$1,861.18	\$135,221.32	7.0%
\$788.79	\$1,872.04	\$133,349.28	7.0%
\$777.87	\$1,882.96	\$131,466.32	7.0%
\$766.89	\$1,893.94	\$129,572.38	7.0%
\$755.84	\$1,904.99	\$127,667.39	7.0%
\$744.73	\$1,916.10	\$125,751.29	7.0%
\$733.55	\$1,927.28	\$123,824.01	7.0%

\$722.31	\$1,938.52	\$121,885.49	7.0%
\$711.00	\$1,949.83	\$119,935.66	7.0%
\$699.62	\$1,961.21	\$117,974.45	7.0%
\$688.18	\$1,972.65	\$116,001.80	7.0%
\$676.68	\$1,984.15	\$114,017.65	7.0%
\$665.10	\$1,995.73	\$112,021.92	7.0%
\$653.46	\$2,007.37	\$110,014.55	7.0%
\$641.75	\$2,019.08	\$107,995.47	7.0%
\$629.97	\$2,030.86	\$105,964.61	7.0%
\$618.13	\$2,042.70	\$103,921.91	7.0%
\$606.21	\$2,054.62	\$101,867.29	7.0%
\$594.23	\$2,066.60	\$99,800.69	7.0%
\$582.17	\$2,078.66	\$97,722.03	7.0%
\$570.05	\$2,090.78	\$95,631.25	7.0%
\$557.85	\$2,102.98	\$93,528.27	7.0%
\$545.58	\$2,115.25	\$91,413.02	7.0%
\$533.24	\$2,127.59	\$89,285.43	7.0%
\$520.83	\$2,140.00	\$87,145.43	7.0%
\$508.35	\$2,152.48	\$84,992.95	7.0%
\$495.79	\$2,165.04	\$82,827.91	7.0%
\$483.16	\$2,177.67	\$80,650.24	7.0%
\$470.46	\$2,190.37	\$78,459.87	7.0%
\$457.68	\$2,203.15	\$76,256.72	7.0%
\$444.83	\$2,216.00	\$74,040.72	7.0%
\$431.90	\$2,228.93	\$71,811.79	7.0%
\$418.90	\$2,241.93	\$69,569.86	7.0%
\$405.82	\$2,255.01	\$67,314.85	7.0%
\$392.67	\$2,268.16	\$65,046.69	7.0%
\$379.44	\$2,281.39	\$62,765.30	7.0%
\$366.13	\$2,294.70	\$60,470.60	7.0%
\$352.75	\$2,308.08	\$58,162.52	7.0%
\$339.28	\$2,321.55	\$55,840.97	7.0%
\$325.74	\$2,335.09	\$53,505.88	7.0%
\$312.12	\$2,348.71	\$51,157.17	7.0%
\$298.42	\$2,362.41	\$48,794.76	7.0%
\$284.64	\$2,376.19	\$46,418.57	7.0%
\$270.77	\$2,390.06	\$44,028.51	7.0%
\$256.83	\$2,404.00	\$41,624.51	7.0%
\$242.81	\$2,418.02	\$39,206.49	7.0%
\$228.70	\$2,432.13	\$36,774.36	7.0%
\$214.52	\$2,446.31	\$34,328.05	7.0%
\$200.25	\$2,460.58	\$31,867.47	7.0%

\$185.89	\$2,474.94	\$29,392.53	7.0%
\$171.46	\$2,489.37	\$26,903.16	7.0%
\$156.94	\$2,503.89	\$24,399.27	7.0%
\$142.33	\$2,518.50	\$21,880.77	7.0%
\$127.64	\$2,533.19	\$19,347.58	7.0%
\$112.86	\$2,547.97	\$16,799.61	7.0%
\$98.00	\$2,562.83	\$14,236.78	7.0%
\$83.05	\$2,577.78	\$11,659.00	7.0%
\$68.01	\$2,592.82	\$9,066.18	7.0%
\$52.89	\$2,607.94	\$6,458.24	7.0%
\$37.67	\$2,623.16	\$3,835.08	7.0%
\$22.37	\$2,638.46	\$1,196.62	7.0%
\$6.98	\$2,653.85	(\$1,457.23)	7.0%

Math Council

<https://wa-appliedmath.org/>

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Washington Applied Math Council

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Financial Algebra – Unit 8 Section 4 -Purchasing a Home Website Articles

This website provides an Excel ARM calculator that simulates various ARM scenarios.

<http://www.vertex42.com/ExcelTemplates/arm-calculator.html>

This website provides a description of ARM and how to calculate them using EXCEL.

<http://ngureco.hubpages.com/hub/Adjustable-Rate-Mortgages-Explained-and-Calculate-Adjustable-Rate-Mortgages-ARM-Using-Excel>

This is an article on the “Danger” of ARMs.

<http://www.mortgage-info.us/feature-dangers-of-arms.htm>

A brief banking article on the advantages and disadvantages of ARMs.

<http://banking.about.com/od/mortgages/a/adjratemortgage.htm>

A brief WA state article on closing costs (earnest money, closing costs, escrow, homeowners and title insurance)

<http://wahomeowners.com/closing-costs-and-escrow>

Sample King County Property Tax Statement (annual)

<http://www.kingcounty.gov/Assessor/PropertyTaxAssessments/ValueChangeNotice.aspx>

King County site providing access to public property records (can search by address)

Be sure to look up the property tax bill option on the top.

<http://info.kingcounty.gov/Assessor/eRealProperty/default.aspx>

An article talking about “adjustment periods”

<http://www.mortgagesfinancingandcredit.org/mortgages/adjustable-rate-mortgages/index-margin-featuresarm2.htm>

WA State Real Estate Excise Tax Rates (a tax applied for real estate sales – a closing cost to the seller)

<http://dor.wa.gov/docs/forms/realestexcstx/realestextxrates.pdf>

<https://wa-appliedmath.org/>