Albert Einstein High School

Summer Task Cover Sheet

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Course: Quantitative Literacy

- ✓ **Purpose of the Summer Assignment:** This summer packet has been designed to reinforce skills taught in algebra 1 and algebra 2 to prepare for Quantitative Literacy. Quantitative Literacy is designed to enhance student's abilities in mathematical decision making and financial literacy.

- ✓ **Relationship between Summer Task and 1st Quarter Objectives:** This assignment is a review of skills you should have already learned. Knowing these skills will help you be successful in your Quantitative Literacy class.

- ✓ **Description of the Task:** You may work with a classmate or a peer however, each student must submit their own packet, and each student is responsible for understanding the material contained in the packet. Write your work on this packet, and make sure to show an appropriate amount of work for each question. If you need another sheet, you may attach it.

- ✓ **Supportive Resources:** You may use textbooks or other sources to help you complete the packet. Calculators may be necessary for some of the problems in this packet.

Grading:

- ✓ **DUE DATE:** Tuesday, September 3, 2019

- ✓ **DEADLINE:** Friday, September 6, 2019

- ✓ **Grading Category:** Completion/ homework for practice and preparation of instruction

- ✓ **Points:** 22 points (if you use the addendum 24 points)

- ✓ **Extent to which the summer task counts towards the marking period grade**: May not account for more than 5% of a student's first quarter grade

- ✓ **Grading Criteria and Rubric:** 1 point per question or ½ point per question if you use both for completion

I. Basic Math Skills

1. Round the following to the nearest TEN:
   a. 58
   b. 62
   c. 27

2. Round the following to the nearest HUNDRED:
   a. 138
   b. 594
   c. 1,975

3. Round the following to the nearest TENTH:
   a. 0.86
   b. 0.128
   c. 0.0862

4. Round the following to the nearest HUNDREDTH:
   a. 0.063
   b. 0.8467
   c. 0.098

5. Solve:
   a. How many quarter years are there in 4 years? _____

   b. How many half years are there in $6\frac{1}{2}$ years? _____

   c. How many months are there in $2\frac{1}{2}$ years? _____

6. Rename as a decimal:
   a. $\frac{1}{5}$

   b. $\frac{34}{50}$

   c. $\frac{6}{25}$

II. Percents

1. Find the answer to the nearest cent:
   a. 25% of $100.00

   b. 6.5% of $94.00

   c. 40% of $50.00

2. Find the answer:
   a. 25 is what percent of 50?

   b. 15 is what percent of 60?

   c. 16.5 is what percent of 82.5?

3. Rename as a decimal:
   a. 2%

   b. 7.5%

   c. 36.2%

4. Multiply and round to the nearest cent:
   a. 0.02 times $5,000.00

   b. 0.065 times $4,520.38

   c. 0.35 times $28,962.41

III. Word Problems

1. This week, Rosa worked 3 hours on Monday, 5.5 hours on Wednesday. and 4.75 hours on Friday. Her hourly wage is $15.00 an hour. How much did Rosa earn this week?

2. The regular price of an iPod is $155.00. This week www.apple.com is having a 20% off sale. What is the sales price of the iPod?

3. A package of pencils contains 12 pencils. There are 175 students taking a test. If each student gets 1 pencil, how many packages are needed?

IV. Reading Tables

Part 1:

Use the table below which shows the average price of a gallon of gas in Maryland to answer the following questions:

Aver Cost of a gallon of gas	
Month	Price
September 2010	$ 2.57
October 2010	$ 2.80
November 2010	$ 2.82
December 2010	$ 3.01
January 2011	$ 3.05
February 2011	$ 3.10
March 2011	$ 3.45
April 2011	$ 3.60
May 2011	$ 3.95

1. How much did a gallon of gas cost in:
   a. February 2011:

   b. September 2010:

   c. May 2011:

2. During which month was the price of a gallon of gas the most expensive?

3. During which month was the price of a gallon of gas the least expensive?

4. In which months was the price of a gallon of gas more than $ 3.10 a gallon?

Part 2:

Use the table below which shows the compound interest by number of periods for various interest rates to answer the following questions:

Number periods	0.5%	1.0%	1.5%	2.0%
1	1.0050	1.0100	1.0150	1.0200
2	1.0100	1.0201	1.0302	1.0404
3	1.0151	1.0303	1.0457	1.0612
4	1.0202	1.0406	1.0614	1.0824
5	1.0253	1.0510	1.0773	1.1041
6	1.0304	1.0615	1.0734	1.1262
7	1.0355	1.0721	1.1098	1.1487

1. If the number of periods is 4, what is the compound interest rate when the interest rate is 1.5%?

2. If the compound interest rate is 1.0510, what is the interest rate and the number of periods?

3. If the compound interest rate is 1.0151 and the interest rate is 0.5% what is the number of periods?

V. Ratios

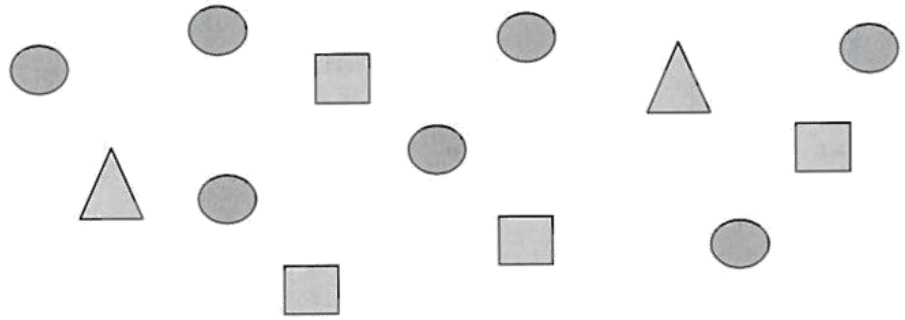
1. Solve the following proportions:

   a. $\frac{1}{x} = \frac{5}{10}$

   b. $\frac{1}{1.5} = \frac{x}{12}$

   c. $\frac{1}{5} = \frac{4}{x}$

2. Use the picture below:



   a. What is the ratio of squares to all shapes?

   b. What is the ratio of circles to all shapes?

   c. What is the ratio of triangles & squares to all shapes?