

Math Summer Packet

Dear Parents,

Welcome to Middle School Math! As we move towards the summer vacation, it is imperative that the students do not forget the skills they have acquired over the past year. We have prepared summer packets to ensure that their mathematics skills remain strong over the summer so they will be better prepared for the next academic year. The summer packets will consist of math skills, concepts and applications practice.

It is mandatory that all students have their basic math facts memorized (addition, subtraction, multiplication, and division). Please have your child practice these facts and all the skills learned during the academic year over the summer so they stay fresh. For this purpose, the website www.thatquiz.org and www.khanacademy.com are great websites to use for practice and video explanations. You can access the required packet for all students on the Hebrew Academy website under the Parents tab, Summer Work: Reading and Math.

All summer work is expected to be handed in to your child's teacher on the first day of school and no later than September 6, 2019 for a total point value of 100. If there are any specific questions regarding the summer work, please contact me at mlopez@rasg.org.

Have a great summer!

Sincerely,

Ms. Lopez

Summer 2019 Math Packet

(For Students who completed 5th grade math during the 2018 – 2019 school year)

Student's Name: _____

Parent's Signature upon Completion: _____

The purpose of this packet is to review the concepts you learned in your 5th grade math course and to keep your mathematical mind fresh! Please work on the packet throughout the summer and **not all in one sitting**.

This packet is due First day of School and no later than September 6, 2019 and may be submitted as hard copy. This summer packet will count as a project grade for the 1st quarter. Late Packets will not be accepted after September 6. **No Extra-Credit** will be awarded if it is turned-In before the due date.

Write Numbers in Words and Digits

Exercises: Write the number name.

1. 560.08

2. 7.016

3. 24.47

4. 6,003

5. 3,005,600.07

Write the number the name represents:

6. Forty-five thousandths

7. Seventeen and seven hundredths

8. Five million, three hundred thousand, twenty-nine and six tenths

9. Six million and five thousandths

10. Two hundred eight thousand, four

Order Decimals

Exercises: List each group of numbers in order **from least to greatest**:

1.) 20, 4, .6, .08

2.) 246.8, 248.6, 244.9, 246.5

3.) 1.03, 2.4, .89, .987

4.) 14.8, 2.68, .879, 8.47

5.) 5.3, 5.12, 5.38, 5.29

6.) 54.89, 56.3, 58.1, 52.98

7.) 4, .006, .8, .07

8.) 297, 3.456, 64.4, 7.24

9.) 794, 793.8, 794.65, 794.7

10.) 9, 6.7, 7.24, 14

11.) 4.2, 4.19, 4.07, 4.3

12.) 3.75, 6.7, 3.8, .45

Add and Subtract Whole Numbers

Solve: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1.) $6,496 + 3,288 =$

2. $54,398 + 64,508 =$

3.) $3,254 + 4,113 =$

4.) $754 - 549 =$

5.) $54,678 + 74,357 =$

6.) $98,455 - 14,789 =$

7.) $38,904 - 32,899$

8.) $908 - 774 =$

Multiply and Divide Whole Numbers

Hints/Guide: You may use standard multiplication practices or lattice. To divide, please clarify the quotient and remainder. **BONUS:** if you can change your remainder to a decimal, please provide the answer. No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

$24 \div 3 =$

$24 \div 6 =$

$16 \times 15 =$

$20 \div 5 =$

$74 \times 10 =$

$190 \div 19 =$

$32 \div 2 =$

$79 \times 9 =$

$216 \div 12 =$

$444 \times 77 =$

$114 \div 14 =$

$4 \times 58 =$

Background of Fractions

Split and Label the following fractional parts (circles) with the given fractions.

1. $\frac{4}{5}$



2. $\frac{7}{8}$



3. $\frac{4}{2}$



Fraction Operations

Hints/Guide: When adding and subtracting fractions, we need to be sure that each fraction has the same denominator, then add or subtract the numerators together.

Exercises: Perform the indicated operation: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1. $\frac{1}{2} + \frac{3}{4}$

4. $\frac{5}{10} + \frac{1}{2}$

2. $\frac{5}{8} + \frac{3}{4}$

5. $\frac{3}{4} - \frac{2}{8}$

3. $\frac{7}{3} + \frac{1}{3}$

6. $\frac{20}{50} - \frac{1}{10}$

Add and Subtract Decimals

Hints/Guide: When adding and subtracting decimals, the key is to line up the decimals above each other, add zeros to have all of the numbers have the same place value length, then use the same rules as adding and subtracting whole numbers, with the answer having a decimal point in line with the problem.

Solve: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

1) $15.7 + 2.34 + 5.06 =$

2) $64.038 + 164.8 + 15.7 =$

3) $2.6 + 64.89 + 4.007 =$

4) $12.9 + 2.008 + 75.9 =$

5) $87.4 - 56.09 =$

6) $5.908 - 4.72 =$

7) $68.9 - 24.74 =$

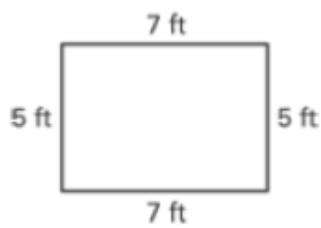
8) $955.3 - 242.7 =$

Reading Scales and Finding Area and Perimeter

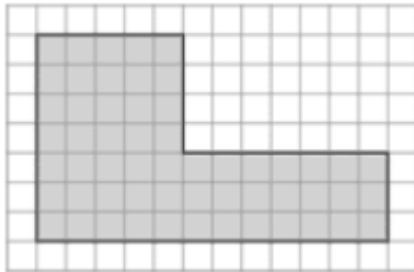
Hints/Guide: To determine the correct answer when reading scales, the important thing to remember is to determine the increments (the amount of each mark) of the given scale.

To find the perimeter of a rectangle or square, we must add the lengths of all of the sides together. To find the area of a square or a rectangle, we must multiply the length by the width.

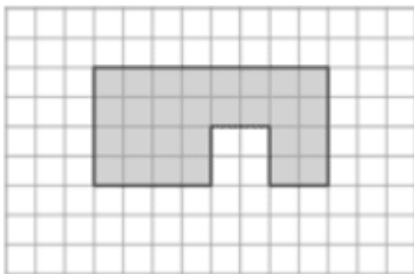
Exercises: Find the area and perimeter of the following. All units are in feet.



area _____ perimeter _____



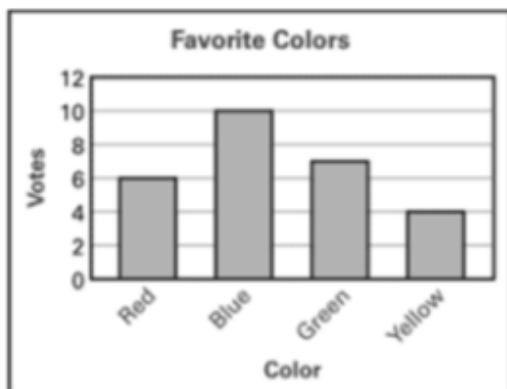
area _____ perimeter _____



area _____ perimeter _____

Using data to find answers.

Use the bar graph.

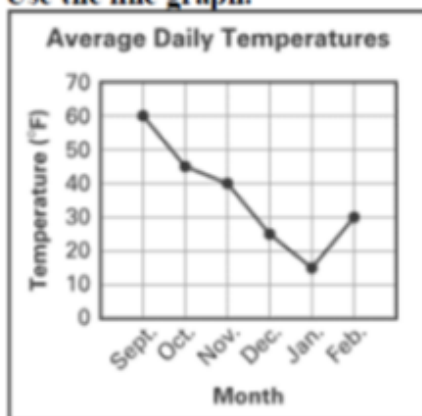


What color did 7 people vote for?

What color had 4 fewer votes than blue?

What was the total number of votes for red and yellow?

Use the line graph.



In which month was the average daily temperature the lowest?

What is the difference between the average daily temperatures for November and December?

What was the average daily temperature for October?

Use the pictograph.



How many black cars were in the parking lot?

How many fewer silver cars were in the parking lot than red cars?

Which color car has twice as many in the parking lot as silver cars?

Find the Mean/Average, Median, Mode, and Range of a Set of Numbers

Exercises: No Calculators! Use scratch paper and STAPLE TO THE BACK for credit, if needed. **No work = no credit.**

Data Set: 5, 12, 6, 3, 8, 16, 8, 6

Mean:

Median:

Mode:

Range:

Data Set: 2, 7, 4, 11, 12, 4, 6

Mean:

Median:

Mode:

Range:

Factors and Multiples.

Make a factor rainbow for the following. Circle the Greatest Common Factor.

1) 18 and 24

2) 12 and 15

3) 17 and 20

4) 21 and 40

Find the first 10 multiples of the following. Circle the Least Common Multiple.

1) 12 and 4

2) 9 and 8