Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For Students Entering Math 6**

As a way to assist you into transitioning to the “middle school” atmosphere of Verner, this summer math booklet was developed to provide students entering sixth grade an opportunity to review grade level math objectives and to improve math performance. I hope this helps to build anticipation for new learning and gives you confidence in your abilities so that you are well prepared for the next level of math. This packet will help ease the transition and help you reinforce skills that are needed prior to the start of sixth grade to ensure future success.

**THIS ASSIGNMENT IS DUE FRIDAY, AUGUST 22nd – THE FRIST FRIDAY OF THE NEW SCHOOL YEAR.**

**THIS PACKET WILL COUNT AS THE FIRST GRADE OF THE NINE WEEKS IN**

**MATH CLASS.**

**Table of Contents - Page, Objective, and Suggested Completion Date**

2 Write Numbers in Words and Digits . . . . . . . . . . . . . . . . . . .. . . . . . . .. . . June 14th

3 Order Decimals . . . . . . . . . . . . . . . . . . . . . . . . . . . . .. . . . . . . . . . . . . . . . . June 21st

4 Add and Subtract Whole Numbers . . . . . . . . . . . . . . . . . . . . . . .. . . . . . . June 28th

5 Multiply and Divide Whole Numbers . . . . . . . . . . . . .. . . . . . .. . . . . . . . . . . July 5th

6 Background of Fractions. . . . . . . . . . . . . . . . . . . . . . . .. . . . . . . . . . . . .. . . . July 12th

7 Add and Subtract Decimals. . . . . . . . . . . . . . . . . . . . . . .. . . . . . . . . .. . . . . July 19th

8 Reading Scales and Finding Area and Perimeter . . . . . . . . . . . . . .. . . . . . July 26th

9-10 Using Data to Find Answers . . . . . . . . .. . .. . . . . . . . . . . . . . . . . . . . .August 2nd

11 Finding the Mean, Median, Mode, and Range . .. . . .. . . . . . .. .. . . . . August 9th

12 Factors and Multiples . . . . . . . . . . . . . . . . . . . . .. . . .. . . . . . . . . .. . . . .August 16th

**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 ÷ 3= | 24 ÷ 6= | 16 x 15= | 20 ÷ 5= |

|  |
| --- |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| 74 x 10= | 190 ÷ 19= | 32 ÷ 2= | 79 x 9= |

|  |
| --- |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| 216 ÷ 12= | 444 x 77= | 114 ÷ 14= | 4 x 58= |

**Background of Fractions**

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

1. 4/5 2. 7/8 3. 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. 1/2 + 3/4 4. 5/10 + 1/2
2. 5/8 + 3/4 5. 3/4 – 2/8
3. 7/3 + 1/3 6. 20/50 -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.**

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**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