The Village School's Rising 6th Grade Math Packet
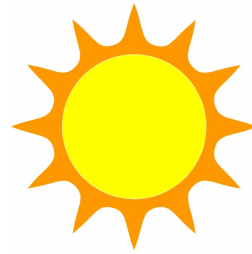
Please complete and turn in the following pages
on the first day of school in August.

Name _____

Rising 6th Grade Summer 2019 Mathematics Packet

Welcome to 6th grade mathematics at The Village School. This packet is comprised of important concepts necessary for success in 6th grade math. Completion of this packet is mandatory for all 6th grade students and must be done in pencil. As you complete this packet, show all steps used to arrive at your final answer on a separate piece of paper labeled accordingly.

Operations with Whole Numbers

1.) $70035 + 197 =$

2.) $1038 + 87 + 103 =$

3.) $7005 - 127 =$

4.) $3896 - 12 + 1605 =$

5.) $5031 - 102 =$

6.) $207 \times 73 =$

7.) $16 \times 12 \times 7 =$

8.) $221 \div 13 =$

9.) $7608 \div 12 =$

10.) $3672 \div 12 \times 6 =$

11.) $15 \times 13 =$

12.) $109 \times 67 =$

Operations with Decimals

1.) $7.906 + 1.72 =$

2.) $102 + 17.08 =$

3.) $34.05 + 10.31 + 7.4 =$

4.) $10.056 - 6.83 =$

5.) $237.05 - 75.008 =$

6.) $400 - 12.87 - 103.5 =$

7). $4.23 \times 5.8 =$

8.) $31.02 \times 4.91 =$

9.) $59.7 \div 0.4 =$

10.) $95 \div 0.05 =$

11.) $3.001 - 1.02 =$

12.) $2.03 + 34.1 =$

Operations with Fractions

1.) Simplify the fractions: a.) $35/49 =$ b.) $10/12 =$ c.) $15/45 =$

2.) Write the reciprocal of: a.) $7/8 =$ b.) $3 =$ c.) $1/18 =$

3). $1/16 + 9/16 =$

4.) $15/26 - 5/26 =$

5.) $4/7 + 9/28 =$

6.) $2/3 - 1/4 =$

7.) $8/9 - 1/18 =$

8.) $1/3 \cdot 3/5 =$

9.) $3/8 \cdot 2/9 =$

10.) $1/4 \div 1/2 =$

11.) $9/10 \div 3/5 =$

12.) $4/9 \div 1/3 =$

13.) $8/9 \times 2/3 =$

Mixed Numbers

1.) Change to improper fraction: $3 \frac{5}{7} = $ 2.) Change to mixed number: 20/9 =

3.) $10 \ 1/5 + 3 \ 2/5 = $ 4.) $4 \ 5/8 - 1/8 = $ 5.) $8 \ 2/5 - 6 \ 3/10 = $

6.) $9 \ 4/5 + 8 \ 1/2 = $ 7.) $2 \cdot 5/8 = $ 8.) $3 \times 1 \ 5/6 = $

9.) $2 \ 1/3 \div 1 \ 3/4 = $ 10.) $3 \ 1/3 \div 5 = $ 11.) $3 \div 9 = $

12.) $1 \div 4 = $

Ordering Numbers

1.) Order the numbers from least to greatest: 246.8 , 248.6, 244.9, 246.5

2.) Order the numbers from least to greatest: 9, 6.7, 7.24, 14

3.) Order the numbers from least to greatest: 17.8 , 3 4 , 0.8, 15, 1.25

4.) Order the numbers from least to greatest: 3.1,   2.03, 1.99, 2.13, 3.12

Decimals and Place Value

Students will be able to determine place value of a given digit.
Write the value of the underlined digit.

1) 842,976 _____   2) 761.032 _____

3) Write seven and ninety-six thousandths as a decimal. _____

4) Write 9.204 in words. _____

5) Write 1.073 in words. _____

Comparing and Ordering Decimals

Students will be able to compare decimals and order decimals from least to greatest.
Write the decimals in order from least to greatest.

1.) 7.21 0.712 72.1 0.721 : _____

2.) 0.01010 0.10101 0.01001 0.00101 : _____

Compare using >, <, or =

3.) 0.0307 __?__ 0.003007

4.) 0.1 __?__ 0.003

5.) 6.954 __?__ 8.96

Rounding

Students will be able to round numbers to a given place value.

1.) Round 15,763.753 to the nearest hundredth. _____

2.) Round 96.3721 to the nearest tenth. _____

3.) Round 123.9842 to the place of the underlined digit. _____

4.) Round 2,348,721.5295 to the nearest thousandths. _____

5.) Round 287.261098 to the place of the underlined digit. _____

Units of Measure

1.) 27 ft = _____ yd 1

2.) 6 C = _____ pt

3.) 6 ft = _____ in

4.) 10 C = _____ pt

5.) 12 ft = _____ in

6.) 6 ft = _____ yd

7.)   30 ft = _____ yd

8.) 60 in = _____ ft

9.) 28 qt = ____ gal

10.) 2 qt = _____ C

11.) 24 qt = ____ gal

12.) 10 ft = _____ in

13.) 4 C = _____ qt

14.) 7 yd = _____ ft

15.) 8 yd = _____ ft

16.) 5 yd = _____ ft

17.) 4 pt = _____ C

18.) 9 pt = _____ C

19.) 12 qt = ____ gal

20.) 4 qt = _____ C

Elapsed Time

Read the following paragraph and complete the questions.

Susan left her house at 9:05 am. She stopped at Gamestop to look around. She ran a few other errands and returned home in time for lunch at 11:57 am. She had to be on a phone call at 12:30 pm. After her call, she left for the pool at 1:21pm. She was feeling hot and decided to go home at 3:03 pm.

She started cooking dinner at 4:47 pm. It was complete and served on the table by 5:43 pm. She then went to the movies. The movie started at 7:09 pm and lasted 2 hours and 23 minutes. She went home and went to bed at 10:17 pm. There was an owl hooting at 3:33am. She had to get up at 6:30 am to get ready for school.

1. How long was Susan away from home in the morning? _____

2. How much time did she have to eat lunch before her call? _____

3. How long was she at the pool? _____

4. How long was she home from the pool before she started cooking dinner?

5. What time did her movie end? _____

6. How long did Susan sleep before the owl woke her up? _____

FUN ACTIVITIES

Here are a few fun activities you need to complete. Read the directions carefully to make sure you complete all necessary steps. The most important part is to have fun!

1. **Multiplication War**

   With a regular deck of cards, you and a partner flip 2 cards each at the same time. Multiply the values of your own cards and whomever has the highest value keeps all 4 cards. Continue to do this until one player has all the cards. That person WINS! To show that you have completed this activity, write your math multiplication problems down on paper from at least one game. *****Add a challenge round for ties where you will each flip 3 cards to multiply at the same time.*****

   (Face Card Values as follows: A = 1   J = 11   Q = 12   K = 13)

2. **Math in the Kitchen**

   Find a cookie recipe you would like to share with some friends. Write the recipe down. Double (multiply by 2) the recipe and write the new amount of each of the ingredients you will need. With adult supervision, bake your cookies, take pictures of them and enjoy! Create a slide of the original recipe, the doubled recipe and a picture of the finished product!

3. **Food To-Go**

   Find your favorite restaurant's menu. Write down an order for 4 people. You must order 2 appetizers, 4 entrees, 2 extra sides, 2 desserts and 4 beverages. You will find the price for each item and add to find the total before tax. Then you will multiply that number by 0.07 to find the tax amount.

   Bonus: Find the value of a 20% tip.