6<sup>th</sup> Summer Math Packet

Hey Friends,

It's that time of year, time to work on some math over summer break so we have some retention when we return to school. This packet will be a great review of your work in  $5^{h}$  grade leading up to your work in  $6^{h}$  grade.

It is important that this is completed on the first full day of school, August 10. All work needs to be shown on your paper. Each section has a review page to remind you the process to solve each problem. Please have packet stapled and in binder.

I am so looking forward to the 2022-2023 school year and getting to know all of you.

Mrs. Dubberley

#### Multiplying Whole Numbers

1. Write the problem vertically ex: 3,481 x 142 Multiply the ones digit of the bottom number by 2. each of the digits in the top number, right to left 3. Bring down a zero and then multiply the tens digit 3.481 of the bottom number by each digit in the top Х 142 number, right to left 6962 4. Bring down two zeros and repeat with the + 139240 hundreds digit of the bottom number 348100 Add up all of the products 5. 494,302

## Dividing Whole Numbers

- Write out the long division problem with the first number (dividend) underneath the division symbol and the second number (divisor) to the left of the division symbol
- 2. Divide the divisor into the smallest part of the dividend it can go into and write the number of times it can go in on top of the division symbol
- 3. Multiply the number on top by the divisor and write the product under the number you divided into in step 2
- 4. Subtract your product from the number above it
- 5. Bring down the next digit of the dividend
- 6. Repeat steps 2-5 until there is nothing left to bring down.
- 7. If your last subtraction answer is not zero, write the remainder on top

ex: 6,425 ÷ 21

21

05 R 20

6425

2

 $\cap$ 

125

105

Find each product. Show your work.

1. 238 x 5	2. 832 x 156	3. 4,899 x 67	4. 756 x 300
			nament tareb
5. 19 x 863	6. 188 x 732	7. 3,249 x 173	8. 609 x 840
	the end of the ended		
	ny nanana ing tagi na		
Lease and the			

Find each quotient. Show your work.

9. 876 ÷ 2	10. 9,473 ÷ 5	11. 396 ÷ 24	12. 8,911 ÷ 45
	Vord Form & E	anderi Form	
	oritis the week number of the decreation task?	a word en i	04.345
13. 700 ÷ 12	14. 1,065 ÷ 15	15. 2,737 ÷ 305	16. 4,516 ÷ 22
	ng anto the robus of Sectors and sectors ag	esté son s betasén (199-1)	

Solve each problem, showing all work.

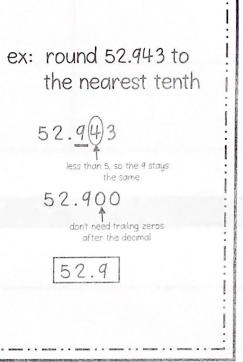
17. Mrs. Kleim bought 5 boxes of 15 pencils to give to her students. If she has 26 students in her class, how many pencils can she give each student? How many pencils will she have left over?	18. Sarah and her 3 friends split a bag of candy evenly. They each ate 13 pieces of candy and there were 2 pieces leftover. How many pieces of candy were originally in the bag?
and the second contents and the same	Compare

2

### Rounding with Whole Numbers & Decimals

ten-thousands	thousands	hundreds	tens	ones	tenths	hundredths	thousandths

- 1. Keep all digits to the left of the place you are rounding the same
- 2. If the digit to the right of the rounding digit is less than 5, keep the rounding digit the same. If it's 5 or greater, increase the rounding digit by 1.
- 3. Change all places to the right of the digit you are rounding to 0. (Trailing zeros after the decimal are unnecessary)



#### Word Form & Expanded Form

- I. <u>Word Form</u>: write the whole number in word form, translate the decimal to "and",  $\mathcal{E}$  write the decimal as if it were a whole number, followed by the name of the place of the last digit
- 2. <u>Expanded Form</u>: write the value of each nonzero digit separately, with addition signs between them

ex: 209.315

two hundred nine and three hundred fifteen thousandths

200 + 9 + 0.3 + 0.01 + 0.005

### Comparing & Ordering Decimals

Compare the whole number portions of the numbers. If they are different write > for greater than or < for less than.</li>
If the whole numbers are the same, compare each digit to the right of the decimal point, one at the same of the decimal point.

a time until you find digits that are different. (If necessary, add zeros at the end of a decimal.)

ex: 13.702 13.74 13 = 1313.7 = 13.713.70 < 13.74So, 13.702 < 13.74

19. tenth	20. hundred	21. thousandth	22. one
23. thousand	24. hundredth	25. ten	26. ten-thousand

Complete the chart below.

Standard Form	Expanded Form	allord Form
3.962	27.	28.
29.	100 + 2 + 0.09	30.
31.	32.	Five thousand six hundred eighty-five and twelve hundredths
8,770.006	33.	34.
35.	900 + 10 + 4 + 0.3 + 0.02 + 0.008	36.
37.	38.	Two thousand nine and thirty-five thousandths

Compare each pair of numbers by writing <, >, or = in the provided circle.

39. 0.046 0.13	40. 9.52 90.13	41. 24.13 24.130	42. 15.96 15.906
43. 0.964 1	44. 6.83 6.825	45. 7.256 7.24	46. 32.9 3.290

Order the numbers from least to greatest.

47. 6.86, 6.8, 7, 6.9, 6.827	48. 12.03, 1.2, 12.3, 1.203, 12.301

		Adding & Subtracting De	ecimals	5
[ : [.	. <u> </u>	Write the problem vertically, lining up the decimal points	ex: 12.8 - 1.52	· — · . !
i	2.	Add zeros, if necessary	12.80	-
	3.	Add or subtract the numbers as if they were whole numbers	- 1.52	
	4.	Bring the decimal point straight down	[11.20]	

## **Multiplying** Decimals

- Write the problem vertically with the numbers lined up to the right (decimals do NOT need to be lined up)
- 2. Ignore the decimal points and multiply the numbers as if they were whole numbers
- 3. Count the total number of decimal places in the two factors and put a decimal point in the product so that it has that same number of decimal places

dividing until there is no remainder

ex: 3.24 x	0.8
× 3.24→ 0.8→ 2592	2 decimal places 1 decimal place 3 decimal places
	2.592

# Dividing Decimals

Write the dividend under the division symbol and the divisor in front of the division symbol
Move the decimal in the divisor after the number and then move the decimal in the dividend the same number of places and bring it up
Ignore the decimal point and divide as if whole numbers
If there is a remainder, add a zero to the end of the dividend, bring it down, and then continue

ex: 32.3 ÷ 0.5 0.5) 32.30 20 30

53. 24.1 + 3.74 54. 14.76 - 9.8 55. 622.85 + 53.49 56. 67 - 14.06	,

Find each product or quotient. Show your work.

57. 4.5 x 6	58. 144.8 ÷ 4	59. 2.7 × 0.8	60. 6.2 ÷ 0.04
10 ×	the fraction in an	uent form	
61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2
	northeranged minibar	to an emproprime fractile	
		an as a crisical constant	

Solve each problem, showing all work.

65. Ryan spent \$3.25 on lunch every day, Monday through Friday. If he had \$20 at the start of the week, how much money did he have left after Friday?	66. Three friends went out to lunch. The bill came to \$47.31. If they split the bill evenly, how much money does each friend owe?
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Name \_\_\_\_\_

Math 6 Summer Packet

Fractions

7.	Complete the equivalent fraction		
		16	4
		$\frac{1}{28}$ =	

Complete the equivalent fraction

$$\frac{49}{63} = \frac{1}{9}$$

68

Write the fraction in simplest form 55

$$\frac{33}{100} = -$$

Write the fraction in simplest form 10.

$$\frac{16}{64} = -$$

- 78. Write the mixed number as an improper fraction  $10\frac{6}{7} = --$
- Write the mixed number as an improper fraction 72 -

$$4\frac{5}{9} = -$$

73. Write the improper fraction as a mixed number

$$\frac{17}{4} =$$



Write the improper fraction as a mixed number