



AcadeMir Charter School West 2024 Summer Learning Requirements

Dear Parent(s)/Guardian(s),

In preparation for the 2024 - 2025 school year and to ensure that our students maintain growth-oriented academia during the summer, the school curriculum team has created the following Summer Learning assignment for each student to complete by the first day of school. Each student must complete the Summer Learning Packet over the summer and turn it in to your classroom teacher by August 23, 2024.

Summer Reading

ACSW students will be expected to read the novel from the reading list for their incoming grade level. For example, if your child is entering 1st grade in the fall, he/she would read the 1st grade novel and complete the activity. Please note that this assignment will be worth one grade for Reading and one grade for Language Arts.

Mathematics Activities

ACSW students are required to complete the mathematics packet that pertains to their incoming grade level and/or assignment. For example, if your child is in the Accelerated Mathematics course in the elementary level, he/she needs to complete the Accelerated packet. For middle school, Algebra, Geometry, etc. is separated from the ELA, Science, and Social Studies packet. Please ensure that you do all the components.

Thank you for your partnership in ensuring your child continues to strive for excellence over the summer! We look forward to an outstanding 2024 – 2025 school year!

Sincerely.

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Dear incoming 6th grader,

We hope you had a wonderful 5th grade year!

This summer math packet has been created to help you review and prepare for 6th grade Mathematics. It covers many of the math topics that you learned in class this year, which we will be building on next year. Although all of the topics in this packet are a review, each page includes a brief reteaching section (with an explanation and example) to help guide you, just in case you have forgotten how to do the problems.

- Please show all of your work for every problem in the packet. You can show your work in the space provided for each question.
- If you need additional space for your work, be sure to number any problems you solve on extra paper and staple the extra paper(s) to your packet.
- Highlight, draw a box, or draw a circle around your final answers.

*Note: If you submit your summer packet without the work, you

WILL NOT receive full credit.

The completed packet is due on the first week of school by:

Friday, August 23rd.

It will count as your first math grade of the new school year.

We hope you have a nice summer and look forward to seeing you in August!

Multiplying Whole Numbers

۲ · · · – ·		·····················
: .	Write the problem vertically	
2.	Multiply the ones digit of the bottom number by each of the digits in the top number, right to left	ex: 3,481 x 142
3. 	Bring down a zero and then multiply the tens digit of the bottom number by each digit in the top number, right to left	x 3,481 <u>142</u>
 : 4. 	Bring down two zeros and repeat with the hundreds digit of the bottom number	6962 + 139240 348100
, 5. ; 5.	Add up all of the products	494,302

Dividing Whole Numbers

- 1. 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

20

25

05

Find each product. Show your work.

1. 238 x 5	2. 832 x 156	3. 4,899 x 67	4. 756 x 300
5. 19 x 863	6. 188 x 732	7. 3,249 x 173	8. 609 x 840

Find each quotient. Show your work.

9. 876 ÷ 2	10. 9,473 ÷ 5	11. 396 ÷ 24	12. 8,911 ÷ 45
13. 700 ÷ 12	14. 1,065 ÷ 15	15. 2,737 ÷ 305	16. 4,516 ÷ 22

Solve each problem, showing all work.

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

Rounding with Whole Numbers \mathcal{E} Decimals

· · · <u> </u>	· — · · ·		· · — · ·	<u> </u>	- • •				
		-							
ten-thousands	thousands	hundreds	tens	ones		tenths	hundredths	thousandths	
١.	1. Keep all digits to the left of the place you are rounding the same								
2.	If the less t it's 5	e digit 1 han 5, l or grea	to the keep th ter, inc	right Ne roui Irease	of ndir the	the rang digit ng digit ng rouna	ounding t the s ding di	g digit same. git by	is If I.
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

- 1. <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.
 If the whole numbers are the same, compare each digit to the right of the decimal point, one at a time until you find digits that are different. (If

necessary, add zeros at the end of a decimal.)



Round the number 21,498.2536 to the nearest indicated place.

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	Word 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.	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 Decimals

· · ·	. <u> </u>	Write the problem vertically, lining up the decimal points	ex: 12.8 - 1.52
i	2.	Add zeros, if necessary	12.780
	3.	Add or subtract the numbers as if they were whole numbers	
	4.	Bring the decimal point straight down	
	· · · —		···—···—···—···—··

Multiplying Decimals

- Write the problem vertically with the numbers lined up to the right (decimals do NOT need to be lined up)
 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

·-··-··-··-··-··
ex: 3.24 x 0.8
$x \xrightarrow{1}{3}, 24 \xrightarrow{2}{2} \text{ decimal places} \\ 0.8 \xrightarrow{1}{1} \text{ decimal place} \\ 3 \text{ decimal places} \\ 2592 \xrightarrow{1}{2}, 592 \\ \hline 2, 592 \\ \hline$

Dividing Decimals

	_		
: :		Write the dividend under the division symbol and the divisor in front of the division symbol	ex: 32.3 ÷ 0.5
	2.	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	(0.5) 32.30 30 \downarrow
: :	3.	Ignore the decimal point and divide as if whole numbers	23
L : 	ł.	If there is a remainder, add a zero to the end of the dividend, bring it down, and then continue dividing until there is no remainder	$\frac{30}{30}$

Find each sum or difference. Show your work.

49. 8.74 + 10.36	50. 37.4 – 8.55	51. 12.9 + 105.67	52. 450.89 – 213.33
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 x 0.8	60. 6.2 ÷ 0.04
61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2
61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2
61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2
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61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2
61. 8.9 x 2.5	62. 15.8 ÷ 0.5	63. 14.8 x 0.12	64. 16.2 ÷ 1.2

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?

Adding \mathcal{E} Subtracting Fractions

[[[— . I.	Rename the fractions to equivalent fractions with common denominators	ex: $4\frac{4}{q} + \frac{2}{3}$
 :	2.	Add or subtract the numerators and keep the denominator the same	$4\frac{4}{q} \times \frac{1}{\sqrt{1}} \frac{4}{q}$
 	3.	If mixed numbers, add or subtract the whole numbers	+ $\frac{2}{3} \times \frac{3}{3} \frac{6}{q}$
 : 	4. . <u> </u>	If possible, simplify the answer \mathcal{E} change improper fractions to mixed numbers	$4 \frac{10}{q} = 5 \frac{1}{q}$

Multiplying Fractions

 : I. 	Turn a whole number into a fraction by giving it a denominator of 1	ex: $6 \times \frac{2}{3}$
2.	Cross-simplify the fractions if possible	² & 2 4
3.	Multiply the 2 numerators and the 2 denominators	$\frac{1}{1} \times \frac{3}{3} = \frac{1}{1}$
 	If possible, simplify the answer & change improper fractions to mixed numbers	= 4

Dividing Fractions

 I.	Turn a whole number into a fraction by giving it a denominator of 1	ex: $12 \div \frac{1}{2}$
2.	Keep the I st fraction the same, change the division symbol to multiplication, and flip the 2 nd fraction to its reciprocal	$\frac{12}{1} \div \frac{1}{2}$
3.	Multiply the 2 fractions	12 2 24 []
4.	If possible, simplify the answer & change improper fractions to mixed numbers	$\frac{1}{1} \times \frac{1}{1} = \frac{1}{1} = \frac{1}{24}$

Find each sum or difference. Show your work.

	68. $\frac{q}{10} - \frac{1}{2}$	69. $\frac{3}{11} + \frac{2}{3}$	70. $\frac{11}{12} - \frac{13}{18}$
$4\frac{5}{9} + 7\frac{1}{3}$	72. $12\frac{9}{14} - 9\frac{3}{7}$	73. $3\frac{3}{5} + 2\frac{3}{4}$	74. $2\frac{2}{15} - 1\frac{2}{3}$

Find each product or quotient. Show your work.

75. $\frac{1}{6} \times \frac{3}{4}$	76. $6 \div \frac{1}{3}$	77. $15 \times \frac{2}{3}$	78. $\frac{1}{2} \div 3$
79. $\frac{1}{6} \times 10$	80. $\frac{1}{4} \div 2$	81. $\frac{5}{9} \times \frac{3}{20}$	82. $4 \div \frac{1}{5}$

Solve each problem, showing all work.

83. Jacqui ran 1 $1/2$ miles on Monday, Wednesday, and Friday and $3/4$ mile on Tuesday and Thursday. How far did she run in all?	84. Tyrell gave 3 packs of baseball cards to his friends. He gave each friend 1/3 of a pack. How many friends got baseball cards?

The Metric System



The Customary System

Length	Weight	Capacity	$ex \cdot l8 c = bt$
l ft = 12 in l yd = 3 ft l mi = 5,280 ft	1 lb = 16 oz 1 T = 2,000 lb	1 c = 8 fl oz 1 pt = 2 c 1 qt = 2 pt 1 gal = 4 qt	cups are smaller units of measure than pints, so need to divide
 convert from ultiply. To cor hit, divide. 	m a larger ui Ivert from a si	nit to a smaller ur maller unit to a larg	hit, $18 \div 2 = 9$ pints

Volume



Convert each Metric measurement. Show your work.

85. I.9 km = m	86. 23 g = mg	87. 350 ml = kl
88. 0.07 kg = cg	89. $6 \text{ cm} = ___ \text{m}$	90. 35 ml = l

Convert each Customary measurement. Show your work.

91. 48 in = ft	92. 6 pt = c	93. 3 T = lb
94. I.5 mi = ft	95. 32 pt = gal	96. 32 oz =lb

Find the volume of each figure. Show your work.

