4th Grade Math News - Thursday, October 7, 2021

The end of the first 9 weeks is almost here and your child will soon be taking the 9 week assessments. Attached you will find a math study guide that covers all the material we have learned so far.

Your child's assessment will be an online, multiple choice option. Students have been taught to work out each problem and show their work on each problem. The test will cover the following topics:
Place Value, Multi-digit Addition and Subtraction, Multiplicative Comparisons, Prime and composite numbers and 1 x 4 digit multiplication.

In order to help your child review and be prepared for this assessment, we are assigning the study guide as homework. Although there are many problems on it (and it would of course be wise for your child to complete the whole packet) we are asking for students to complete and be prepared to go over the following problems at school: (Please have them do the night before in preparation!)

On Tuesday 10/12 we will go over:
Problems # 2, 3, 4, 7, 9 and 11 *(Monday Homework)*

On Wednesday 10/13 we will go over:
Problems # 12, 13, 14, 16, 17 and 21 *(Tuesday Homework)*

On Thursday 10/14 we will go over:
Problems # 22, 25, 26, 27 and 32 *(Wednesday Homework)*

On Friday 10/15 we will go over:
Problems #33, 34, 36, 40, 41, 42 & 44 *(Thursday Homework)*

If possible, we'd love for families to be involved in helping your child prepare for their first big math assessment of the year. Please have your child complete the questions for each day and then go over it with them. Ask to see their work on paper and ask questions about how they solved it. Can they tell you why they chose that answer? Can they tell you why the other answers were not good options?

Thanks for your help at home!
Ms. Giffin, Mrs. Greene & Mrs. Reaves

Name: _____

Daily Homework - 4th Grade Math Study Guide
Monday Problems # 2, 3, 4, 7, 9 and 11
Tuesday Problems # 12, 13, 14, 16, 17 and 21
Wednesday Problems # 22, 25, 26, 27 and 32
Thursday Problems # 33, 34, 36, 40, 41, 42 & 44

Chart Your Success

Place a check (✔) in the box if your answer is correct.

NC.4.OA.1 Interpret Multiplication as a Comparison (page 1)

1	2	3	4	5	Total Correct
					/5

NC.4.OA.3 Solve Two-Step Word Problems with Whole Numbers (page 2)

6	7	8	9	10	11	Total Correct
						/6

NC.4.NBT.1 Understand Place Value (page 3)

12	13	14	15	Total Correct
				/4

NC.4.NBT.2 Read and Write Multi-Digit Whole Numbers (page 4)

16	17	18	19	20	21	Total Correct
						/6

NC.4.NBT.4 Add and Subtract Multi-Digit Whole Numbers (page 5)

22	23	24	25	26	27	Total Correct
						/6

NC.4.NBT.5 Multiply Whole Numbers (page 6)

28	29	30	31	32	Total Correct
					/5

NC.4.OA.1 Solve Word Problems: Multiplication and Division Comparisons (page 7)

33	34	35	36	37	38	Total Correct
						/6

Unit 4: NC.4.OA.4 Identify Factor Pairs, Multiples, Prime and Composite Numbers (page 8)

39	40	41	42	43	44	Total Correct
						/6

Total Correct /44

Name: _____

NC.4.OA.1

Study Guide for Unit Test 1

1. Every Saturday for 8 weeks, James walked on the beach collecting seashells. Each week James collected as many seashells as he could and then selected his 5 favorite seashells to take home. Last Saturday, James collected 3 times as many seashells as he took home. Which equation represents the total number of seashells James collected on the beach the last Saturday?

A. $3 \times 5 = 15$

B. $3 \times 8 = 24$

C. $5 \times 8 = 40$

D. $3 \times 5 \times 8 = 120$

2. The fourth-grade classes played football during recess. On Friday, Mr. Lane's class scored 7 points, Mrs. Kervin's class scored 14 points, and Ms. Najera's class scored 28 points. Which statement is ***not*** true?

A. Mrs. Kervin's class scored twice as many points as Mr. Lane's class.

B. Mr. Lane's class scored 4 times as many points as Ms. Najera's class.

C. Ms. Najera's class scored twice as many points as Mrs. Kervin's class.

D. Ms. Najera's class scored 4 times as many points as Mr. Lane's class.

3. Ben has 6 times as many sheets of paper as Joey. Joey has 8 sheets of paper. Which equation can be used to find s, the number of sheets of paper Ben has?

A. $6 + 8 = s$

B. $6 + 8 + 2 = s$

C. $8 \times 6 \times 2 = s$

D. $6 \times 8 = s$

4. Sandra's grandparents are visiting, and she sets the table for dinner. She gives every person a knife, a spoon, and a fork. She sets 6 places for dinner. Sandra realizes the total number of pieces of silverware can be represented with the equation $18 = 6 \times 3$. Which statement ***best*** describes Sandra's equation?

A. 18 is 6 more than 3.

B. 18 is 6 times as many as 3.

C. 3 is 6 times as many as 18.

D. 6 is 3 less than 18.

5. Mr. Woodard put 6 guitar strings on each of 4 guitars. Which statement ***best*** describes the strings and guitars?

A. There are 10 guitars and strings.

B. There are 4 times as many strings as guitars.

C. There are 6 times as many strings as guitars.

D. There are 24 guitars and strings.

Name: _____

NC.4.OA.3

6. Jane donates $12 to the food bank. Monica donates triple that amount. Jasmine donates double the amount Monica donates. How much does Jasmine donate to the food bank?

A. $24

B. $36

C. $48

D. $72

7. Rhonda invites 3 dozen friends to the park for a picnic. She needs to buy juice boxes for her guests. Juice boxes come in packages of 8. What is the fewest number of packages Rhonda needs to buy to have at least 1 juice box per guest?

A. 6

B. 5

C. 4

D. 1

8. Carnations cost $5 per dozen. Leah spends $40 on carnations. How many carnations does Leah buy?

A. 8

B. 45

C. 96

D. 200

Use the table to answer questions 9 and 10.

The school cafeteria serves breakfast and lunch each school day. The table shows the number of students served during 1 week.

Students Served

	M	T	W	Th	F
Breakfast	127	137	183	202	157
Lunch	219	288	312	269	336

9. Which 2 days had the greatest number of students served?

A. Wednesday and Friday

B. Monday and Tuesday

C. Wednesday and Thursday

D. Thursday and Friday

10. Breakfast was served to 806 students during the week. What is the difference in the total number of students served breakfast and the total number of students served lunch?

A. 2,230

B. 1,424

C. 806

D. 618

11. Luis made $8 at his lemonade stand on Friday. On Saturday he made 3 times as much money as he made on Friday. How much money did Luis make on the 2 days?

A. $11

B. $24

C. $32

D. $40

Name: _____

NC.4.NBT.1

12. The fourth-grade classes at Sleepy Hollow Elementary have a read-a-thon. The students read a total of 28,864 minutes. How does the value of the 8 in the thousands place compare to the value of the 8 in the hundreds place?

A. The 8 in the thousands place has the same value as the 8 in the hundreds place.

B. The 8 in the thousands place has 10 times the value of the 8 in the hundreds place.

C. The 8 in the thousands place has 100 times the value of the 8 in the hundreds place.

D. The 8 in the thousands place has 1,000 times the value of the 8 in the hundreds place.

13. In which pair of numbers does the 5 in the second number have 10 times the value of the 5 in the first number?

A. 5,821 and 8,521

B. 4,582 and 5,842

C. 2,085 and 2,508

D. 2,358 and 5,328

14. Amber's club sold 2,167 boxes of cookies. Cristina's club sold 1,276 boxes of cookies. Which statement about these numbers is true?

A. The value of the 2 in the first number is 20 times the value of the 2 in the second number.

B. The value of the 7 in the first number is 10 times the value of the 7 in the second number.

C. The value of the 1 in the first number is 10 times the value of the 1 in the second number.

D. The value of the 6 in the first number is 10 times the value of the 6 in the second number.

15. A large box of paper clips has 500 clips. Fiona purchases enough boxes to have 5,000 clips. How is the 5 in 5,000 related to the 5 in 500?

A. The 5 in 5,000 has 100 times the value of the 5 in 500.

B. The 5 in 5,000 has 5 times the value of the 5 in 500.

C. The 5 in 5,000 has 10 times the value of the 5 in 500.

D. The 5 in 5,000 has 50 times the value of the 5 in 500.

Name: _____

NC.4.NBT.2

16. Three students recorded thirteen thousand, seven hundred ninety-five in different ways.

Dell: 13,795

Libby: 13 + 700 + 95

Margo: 13 thousands + 7 hundreds + 95 ones

Which students correctly expressed thirteen thousand, seven hundred ninety-five?

A. All three students were correct.

B. Only Libby was correct.

C. Both Dell and Margo were correct.

D. Both Dell and Libby were correct.

17. Mr. Barnes has driven his car 47,601 miles since he bought it 5 years ago. How is this number written in words?

A. forty-seven thousand, sixty-one

B. forty thousand, seven hundred sixty-one

C. forty thousand, six hundred one

D. forty-seven thousand, six hundred one

18. The population of Marshallville is fifty thousand, forty-two. How is this population written using numerals?

A. 5,042

B. 50,042

C. 50,420

D. 542,000

19. The seating capacity for a university football stadium is 90,245. Which shows this number written in expanded form?

A. 90,000 + 200 + 40 + 5

B. 90,000 + 2,000 + 40 + 5

C. 9,000 + 200 + 40 + 5

D. 9,000 + 200 + 50 + 4

20. Liseth thinks of a mystery number. She writes 4 clues for the number.

- The number has 5 digits.
- One addend of the expanded form is 6,000.
- The number has a 2 with a value of 20,000.
- The number has 8 tens.

Which number could be Liseth's number?

A. 20,586

B. 26,083

C. 28,827

D. 28,510

21. Which number has 51 hundreds?

A. 5,150

B. 5,051

C. 5,015

D. 4,510

Name: _____

NC.4.NBT.4

22. The population of Landon County is 80,000. All the people in this county live in either Union, Newton, or Bell. The population of Union is 42,736, and the population of Newton is 23,985. What is the population of Bell?

A. 66,721 **C.** 37,264

B. 56,015 **D.** 13,279

23. Jennifer wins a contest at the grand opening of the mall. Her prize is a $5,000 shopping spree. The day of her shopping spree, Jennifer spends $2,937 for new clothes. Which shows the amount of money Jennifer has left to spend?

A. $2,063

B. $2,173

C. $3,937

D. $7,937

24. The sum of two numbers is 9,782. The difference of the two numbers is 1,892. Which could be the two numbers?

A. 7,227 and 2,555

B. 5,837 and 3,945

C. 6,598 and 3,184

D. 4,960 and 4,822

25. The population of Lake City is 229,856. The population of Richland is 128,074. What is the total population of the two cities?

A. 457,822

B. 358,930

C. 357,930

D. 357,920

Use the table to answer questions 26 and 27.

26. The table shows the number of sandwiches a sandwich shop served this week.

Sandwiches Served

Day	Sandwiches
Monday	1,439
Tuesday	2,094
Wednesday	949
Thursday	1,692
Friday	2,900
Saturday	3,530
Sunday	2,104

Which statement about the information in the table is true?

A. There were more sandwiches served on Saturday than on Sunday.

B. There were more sandwiches served on Monday and Tuesday than on Thursday and Friday.

C. More sandwiches were sold on Friday than on Saturday.

D. More sandwiches were sold on Monday than on Wednesday.

27. How many more sandwiches were sold on Saturday than on Tuesday and Wednesday together?

A. 487

B. 513

C. 587

D. 597

Name: _____

NC.4.NBT.5

28. A bus travels 64 miles in 1 hour on a trip from Los Angeles to Houston. It travels 8 miles on 1 gallon of gasoline. How far will the bus travel in 16 hours?

A. 128 mi

B. 512 mi

C. 1,024 mi

D. 8,192 mi

29. Jarell creates this area model to find the product of 34 and 86.

	80	6
30	30 × 80 = 2,400	30 × 6 = 180
4	4 × 80 = 320	4 × 6 = 24

Which equation can Jarell use to find p, the product of 34 and 86?

A. $2{,}400 + 180 + 320 - 24 = p$

B. $2{,}400 + 180 + 320 + 24 = p$

C. $2{,}400 + 180 - 320 - 24 = p$

D. $2{,}400 \times 180 \times 320 \times 24 = p$

30. Washington Elementary prints a school newspaper. The newspaper has 6 pages with 3 columns per page. Each column has 36 lines of print. How many lines of print are in the newspaper?

A. 108

B. 216

C. 324

D. 648

31. Isa helps Mr. Jimenez set up chairs in the cafeteria for a talent show. They arrange 41 rows with 28 chairs in each row. Which expression shows the total number of chairs for the talent show?

A. $(41 \times 20) + (41 \times 8)$

B. $(40 \times 20) + (1 \times 8)$

C. $(20 \times 41) \times (8 \times 41)$

D. $(41 \times 20) - (41 \times 8)$

32. Mr. Bush's son lives in San Diego, which is 739 miles from his home. Mr. Bush traveled to San Diego and back 3 times last year. How many miles did Mr. Bush travel to and from San Diego last year?

A. 742 mi

B. 2, 217 mi

C. 3,695 mi

D. 4,434 mi

Name: _____

NC.4.OA.1 -*Revisit* Multiplicative Comparisons

33. Maritza puts 8 apple slices into a bag. Her mother places 6 times as many apple slices in a plastic container. How many apple slices does Maritza's mother place in the plastic container?

A. 52

B. 48

C. 42

D. 14

34. Paul buys a shirt that cost $18 and a tie that cost $9. He also buys a pair of pants that cost $54. Which statement is true?

A. Paul spends twice as much on the shirt as he spends on the tie.

B. Paul spends 3 times as much on the shirt as he spends on the pants.

C. Paul spends 6 times as much on the tie as he spends on the pants.

D. The total of Paul's purchases is 3 times the cost of the tie.

35. Two months ago, Ivan owned 36 video games. Last month, he sold some games to a friend, leaving Ivan with 9 video games. Ivan had c times as many video games 2 months ago as he had last month. Which equation could be used to find c?

A. $36 \times 9 = c$

B. $36 \div 2 = c$

C. $36 \div 9 = c$

D. $2 \times 36 = c$

36. There are 28 students in Mrs. Ronwall's class. This is twice the number of students in Mrs. Jager's class, and 4 times the number of students in Mr. Hope's class. How many students are in Mrs. Jager's and Mr. Hope's classes?

A. Mrs. Jager – 56, Mr. Hope – 112

B. Mrs. Jager – 30, Mr. Hope – 32

C. Mrs. Jager – 14, Mr. Hope – 7

D. Mrs. Jager – 12, Mr. Hope – 6

37. Mandy washed 12 plates. She washed 3 times as many pieces of silverware. How many pieces of silverware did Mandy wash?

A. 36

B. 15

C. 9

D. 4

38. Maggie sent 3 picture postcards while on vacation. Diane sent 9 postcards. Which equation represents the relationship between the number of postcards Maggie sent compared to Diane?

A. $3 + 9 = 12$

B. $3 + 6 = 9$

C. $3 \times 9 = 27$

D. $3 \times 3 = 9$

Name: _____

NC.4.OA.4

39. Mary creates a table showing the factor pairs of 42.

Factor Pairs of 42

Factor Pairs	1	2	3	6
	42	21	14	7

Based on the table of factor pairs, what can you conclude about 42?

A. The number 42 is prime.

B. The number 42 has a factor of 5.

C. The number 42 is composite.

D. The number 7 is the only prime factor of 42.

40. Which number is ***not*** a multiple of 6?

A. 48

B. 42

C. 34

D. 30

41. Sandy has piano lessons on the dates listed.

May 3 May 10 May 17 May 24

Which of the dates are prime numbers?

A. May 3 and May 17

B. May 10 and May 24

C. May 17 and May 24

D. May 3 and May 10

42. J'Nae made a mistake when she listed all the factors of 16.

1, 2, 8, 16

What was J'Nae's mistake?

A. She should have included 10 as a factor.

B. She should have included 4 as a factor.

C. She should ***not*** have included 8 as a factor.

D. One is ***not*** a prime number, so it cannot be a factor.

43. Which list names all the factors of 48?

A. 1, 3, 4, 6, 8, 12, 24, 48

B. 2, 3, 4, 12, 24, 48

C. 1, 2, 4, 6, 8, 12, 16, 24

D. 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

44. Lukas tells his teacher that on his birthday his age will be a prime number. He also tells her that it will be the first time his age has been prime since he was 7 years old. What age will Lukas be on his birthday?

A. 9

B. 10

C. 11

D. 12