

Name _____

Date _____

4th grade Multiplication/Division Test (Part 1)

Multiplicative Comparisons: 4.OA.1

1. Which of the following represents $12 = 3 \times 4$?

- A. 3 is 4 times as many as 12
- B. 12 is 6 times as many as 2
- C. 4 is 3 times as many as 12
- D. 12 is 4 times as many as 3

2. David has 4 potato chips left. Martin has 3 times as many potato chips left. How many potato chips does Martin have left?

What type of comparison is shown in the question above?

- A. multiplicative comparison
- B. subtraction comparison
- C. additive comparison
- D. division comparison

3. Directions: Using the information from the story put the correct dollar amounts in the proper locations on the tape diagram.

Jared bought a rake for \$14 and a trash can for \$5. He bought a leaf blower that costs 5 times as much as the rake. Use the boxes to help you determine the total cost of the leaf blower.

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rake

leaf blower

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	=	<input type="text"/>
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What is the total cost of the leaf blower that Jake purchased?

- A. \$14
- B. \$70
- C. \$5
- D. \$28

4. This week, Matt worked 4 times as many hours as Sue. If Sue worked 8 hours, which number sentence shows how many hours Matt worked?

- A. $4 \times 8 = 32$
- B. $8 \times 8 = 64$
- C. $4 + 8 = 12$
- D. $4 \times 4 = 16$

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5. Which of the following represents $48 = 4 \times 12$?

- A. 4 is 12 times as many as 48
- B. 48 is 6 times as many as 8
- C. 12 is 4 times as many as 48
- D. 48 is 4 times as many as 12

Place Value Based on Groups of 10: 4.NBT.1

6. Tom wrote the number 45,378. Bill wrote the number 36,721. How many times greater is the 7 in Bill's number than the 7 in Tom's number?

- A. 700 times greater
- B. 10 times greater
- C. 100 times greater
- D. 1 times greater

7. Sarah wrote the number 13,285. Caryn wrote a five-digit number that has only one 3 in it. The 3 in Caryn's number is worth 10 times as much as the 3 in Sarah's number. Which number below did Caryn write?

- A. 24,365
- B. 24,653
- C. 34,652
- D. 23,654

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8. Consider Jake and Riley's numbers:

Jake: 479,356

Riley: 432,978

Choose the correct statement below.

- A. The 3 in Jake's number has 10 times the value of the 3 in Riley's number.
- B. The 9 in Jake's number has 10 times the value of the 9 in Riley's number.
- C. The 4 in Jake's number has 10 times the value of the 4 in Riley's number.
- D. The 7 in Jake's number has 10 times the value of the 4 in Riley's number.

9. Brianna and Dylan were given the six-digit number 234,567. They each had to create a different number using all of the digits. Below are the numbers that Brianna and Dylan have created. Which digits in Brianna's number has a value that is 10 times greater than the value of the same digit in Dylan's number?

Brianna's number- 243,657

Dylan's number- 743,562

- A. The 6 in Brianna's number has 10 times the value of the 6 in Dylan's number.
- B. The 4 in Brianna's number has 10 times the value of the 4 in Dylan's number.
- C. The 2 in Brianna's number has 10 times the value of the 2 in Dylan's number.
- D. The 5 in Brianna's number has 10 times the value of the 5 in Dylan's number.

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10. The chart below tells the lengths of six different rivers from around the world. Use the lengths to complete the activities below the chart.

name of river	Nile	Columbia	Mekong	Danube	Volga	Amazon
length in miles	4,132 miles	1,450 miles	2,705 miles	1,795 miles	3,645 miles	3,976 miles

Fill in the blanks so each statement is true.

The value of the 7 in the Danube's length is ten times the value of the 7 in the _____'s length.

The value of the 5 in the _____'s length is ten times the value of the 5 in the Volga's length.

The value of the _____ in the Amazon's length is ten times the value of the same digit in the Danube's length.

Which of the expressions below is equivalent to the value of the 4 in the length of the Columbia River?

- A. 400×10
- B. 4000×10
- C. 40×10
- D. 4×10

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Reading, writing, and comparing whole numbers: 4.NBT.2

11. What is the value of the 4 in the number 34,125?

- A. 4
- B. 400
- C. 40
- D. 4,000

12. Which of the following shows the word form for the number 3,056,410.

- A. three thousand, fifty six hundred, forty one
- B. three million, fifty six thousand, four hundred ten
- C. Three million, five hundred six thousand, forty one
- D. Thirty million, fifty six thousand, forty one

13. Which of the following is correct?

- A. $306 > 316$
- B. $306 = 316$
- C. $306 < 316$

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14. Which of the following shows the word form for the number 2,204,056.

- A. 2,000,000+200,000+4,000+50+6
- B. 2,000,000+20,000+4,000+56
- C. 20,000,000+ 24,000+50+6
- D. 2,000,000+200,000+40,000+50+6

15. Which of the following is correct?

- A. $36,987 > 36,897$
- B. $36,987 = 36,897$
- C. $36,987 < 36,897$

Factors and multiples : 4.OA.4

16. Jack is 36 years old. He went to a birthday party for someone in his family named Alicia. When he was there, he realized that his age is a multiple of Alicia's age. What are all the possible ages that Alicia could be?

- A. 2, 4, 10, 12, 30, 36
- B. 36, 72, 108
- C. 1, 2, 3, 6, 9, 18, 36
- D. 2, 9, 18, 21, 24, 27

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17. Lily and Matthew sold baked goods at their school's fair. Lily made brownies, and she put them into packages that held 4 brownies each. Matthew made brownies also, but he put them in packages that held 6 brownies each. Lily said, "I sold over 30 brownies." Matthew said, "I sold over 30 brownies also." When they compared the amount they sold, they found that they each sold a different number of brownies. How many brownies could Lily and Matthew each have sold? Pick one possible answer.

- A. Lily- 40 Matthew- 18
- B. Lily- 24 Matthew- 30
- C. Lily- 36 Matthew- 30
- D. Lily- 32 Matthew- 36

18. What are all the factors of 28?

- A. 1, 2, 3, 8, 16, 28
- B. 1, 2, 4, 7, 14, 28
- C. 2, 4, 7, 28
- D. 1, 2, 3, 9, 18, 28

19. Name three prime numbers greater than 12? Pick one possible answer.

- A. 13, 17, 19
- B. 13, 14, 15
- C. 14, 16, 18
- D. 14, 18, 22

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20. Look at each pair of numbers below. Which pair contains one prime and one composite number?

- A. 21, 27
- B. 41, 43
- C. 45, 46
- D. 23, 25

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Answer Key:

Multiplication and Division Pre and Post Test

Multiplicative Comparisons: 4.OA.1

1. D

2. A

3. B

rake

14

leaf blower =

14	14	14	14	14
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70

4. A

5. D

Place Value Based on Groups of 10: 4.NBT.1

6. B

7. C

8. B

9. A

10. Part A

The value of the 7 in the Danube's length is ten times the value of the 7 in the Amazon's length.

The value of the 5 in the Columbia's length is ten times the value of the 5 in the Volga's length.

The value of the 9 in the Amazon's length is ten times the value of the same digit in the Danube's length.

Part B

10. C

Reading, writing, and comparing whole numbers: 4.NBT.2

11. D

12. B

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13. C

14. A

15. A

Factors and multiples : 4.OA.4

16. C

17. D

18. B

19. A

20. D