

Unit 1 Summative Assessment

Numbers and Operations in Base 10

<p>5.NBT.1 I can show that the place value of a number is 10 times smaller or larger in a multi-digit number.</p>	<p>1. Which shows a list from smallest to largest?</p> <p>A. 0.01; 0.001; 0.101; 0.1 B. 0.1; 0.01; 0.001; 0.101 C. 0.001; 0.101; 0.01; 0.1 D. 0.001; 0.01; 0.1; 0.101</p>	<p>2. Which term can be put in the blank to make the statement below true? $3,000,000 = 30 \times \underline{\hspace{2cm}}$</p> <p>A. thousands B. ten-thousands C. hundred-thousands D. millions</p>	<p>3. A fabric shop has 20,458 yards of different types of curtain fabrics. What is the place value of the 5 in the number 20,458?</p> <p>A. Ten Thousands B. Hundreds C. Tens D. Ones</p>	<p>4. Explain the relationship between the two 5's in the number 455,721.</p>
<p>5.NBT.2 I can express powers of ten and explain the pattern of a decimal when multiplying and dividing by powers of 10.</p>	<p>5. Which expression is equivalent to 1,000,000?</p> <p>A. 10^3 B. 10^4 C. 10^5 D. 10^6</p>	<p>6. Complete the number sentences below:</p> <p>A. $\underline{\hspace{2cm}} \times 100 = 2,500$ B. $\underline{\hspace{2cm}} \div 10^3 = 0.016$ C. $3.3 \times \underline{\hspace{2cm}} = 33,000$</p>	<p>7. Write the Missing power of 10.</p> <p>A. $78 \times \underline{\hspace{2cm}} = 78,000$</p> <p>B. $512 \div \underline{\hspace{2cm}} = .512$</p>	<p>8. Write 61, 204 in expanded form using exponents.</p>

5.NBT.3
I can read and write decimals to the thousandths place in word form, base-ten form, and expanded form.

I can compare two decimals to the thousandths.

9.

A number greater than 40 with a 5 in the tenths place.	
A number between 200 and 300 with a 7 in the thousandths place and a 2 in the hundredths place.	
A number greater than 18.55 and less than 18.6	
A number equivalent to 63.24	
A number that has a three in the hundredths place.	

10. Create a grid below and represent the following decimal:

.6

11. Compare the following decimals using (<, >, =) :

A. .45 .5

B. 7.2 7.13

C. 13.05 13.5

D. 32.9 32.10

12. Name the following decimals:

A. 5.68

B. 125.09

5.NBT.4
I can round decimals by using the digit to the right to determine whether it rounds up or down.

I can explain why rounding is useful.

13. The number 9.37 rounded to the nearest tenth is 9.4. Is the correct? Why or why not?

14. My number, rounded to the nearest hundredth place is 4.32. What might my number be?

Justify your thinking.

15. Round the following numbers to the nearest tenth.

A. 45.94

B. 612.09

C. 12.006

16. Explain to a new student how you would round the following number to the nearest hundredth:

12.865

<p>5.NBT.5 I can explain the standard algorithm for multiplication of multi-digit numbers.</p> <p>I can use the standard algorithm.</p>	<p>17. A rabbit's heart beats 212 beats per minute. How many times does it beat in 25 minutes?</p>	<p>18. How would you arrange the 5 numbers below to create the largest product possible?</p> <p>9 2 0 8 4</p> $\begin{array}{r} ? \quad ? \quad ? \\ \times \quad ? \quad ? \\ \hline \end{array}$	<p>19. $\begin{array}{r} 548 \\ \times 27 \\ \hline 3836 \\ 10960 \\ \hline 14,796 \end{array}$</p> <p>Explain why the 0 highlighted above belongs in the problem. What is its purpose? How does it relate to place value?</p>	<p>20.</p> $\begin{array}{r} 234 \\ \times 36 \\ \hline 12244 \\ + \quad 702 \\ \hline \end{array}$ <p>There is a mistake in the problem above. Identify it and give the most likely reason why it was made.</p>
<p>5.NBT.6 I can show division of whole numbers with one and two-digit divisors using place value, arrays, area models, and other strategies. I can explain my computation</p>	<p>21. A theater sells out every day for 31 days. During that time, 4,340 tickets were sold. How many people does the theater hold?</p>	<p>22. At a school carnival there is an egg toss. There are 314 students in the school. Twelve eggs are in one carton.</p> <p>How many cartons are needed so that each student gets an egg?</p> <p>_____cartons</p>	<p>23. Pertaining to number 23, the principal realizes that each student should have two eggs. How will this decision affect the number of cartons he needs to buy?</p>	<p>24.</p> <ul style="list-style-type: none"> • The quotient of a division problem is 20 when rounded to the nearest ten. • The divisor of the same problem is 50 when rounded to the nearest ten. • The dividend is between 1,000 and 1,200. <p>What is a possible quotient and divisor in this problem?</p>

5.NBT.7

I can add, subtract, multiply, and divide decimals.

I can explain how I computed with decimals using concrete models or drawings.

25. Using the chart,

Butterfly	Wingspan (cm)
Red Glider	5.715
Purple Swallowtail	5.218
Orea Banner	5.503
Peacock Butterfly	5.730
Great Copper	5.447

What is the total wingspan of the Red Glider, the Orea Banner, and the Peacock?

26. Using the chart to the left, what is the difference of wingspan between the Purple Swallowtail and Great Copper?

27. Write a real-world problem that could be solved with the expression $2.28 \div 6$. Then find the solution for your problem.

28. Sammy divided 6.12 by 3 and got the quotient 2.4. Find the correct quotient and tell what you think Sammy did wrong.

29. A meteor is traveling at 2.9 miles per second. How far does it travel in 0.75 seconds?

30. A tabletop has the measurements 3.5 meters by 1.2 meters. What is the area in square meters?

If your brother cut 0.3 meters off of one side, how would that affect the area of the tabletop?

Does it matter which side is cut? Show your work, including a diagram. You can use graph paper if needed.

Rate yourself: (Circle one) 4-Did Great; 3- Pretty Good; 2-Okay; 1-Not Very Good