

Warm Up

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Write the following in scientific notation:

$$\begin{array}{l} 750,000 \\ \underline{\underline{7.5 \times 10^5}} \end{array}$$

$$\begin{array}{l} 0.000125 \\ \underline{\underline{1.25 \times 10^{-4}}} \end{array}$$

$$\begin{array}{l} 30,600 \\ \underline{\underline{3.06 \times 10^4}} \end{array}$$

Write the following in standard form:

$$\begin{array}{l} 4.956 \times 10^6 \\ \underline{\underline{4,956,000}} \\ 4,956,000 \end{array}$$

$$\begin{array}{l} 5.45 \times 10^{-4} \\ \underline{\underline{0.000545}} \\ 0.000545 \end{array}$$

$$\begin{array}{l} 6.072 \times 10^7 \\ \underline{\underline{60,720,000}} \\ 60,720,000 \end{array}$$

Scientific Notation

Are the numbers written correctly in scientific notation? Write *yes* or *no*.

- 1.) 34.7×10^4 NO 2.) 8.09×10^7 YES 3.) 704×10^{10} NO
 4.) 9.35×10^{11} YES 5.) 42.01×10^3 NO 6.) 3.005×10^6 YES

Indicate the correct power of 10 in the blanks below.

- 7.) $5,360 = 5.36 \times 10^?$ 3 8.) $7,030,000 = 7.03 \times 10^?$ 6
 *9.) $63307.3 = 633073 \times 10^?$ 4 10.) $5,030,000,000 = 5.03 \times 10^?$ 9

Write in scientific notation.

- 11.) 31,000 3.1×10^4 12.) 207,000 2.07×10^5
 13.) 1,700,000 1.7×10^6 14.) 53,804 5.3804×10^4
 15.) 90,001 9.0001×10^4 16.) 2,340,000,000 2.34×10^9

Write the numbers below in standard form.

- 17.) 2.0×10^2 200 18.) 3.5×10^5 350,000
 19.) 6.03×10^8 603,000,000 20.) 9.98×10^7 99,800,000
 21.) 4.205×10^{11} 420,500,000,000 22.) 8.136×10^{12} 8,136,000,000,000

Solve.

- 23.) One light year is about 5.88×10^{12} miles. What is this distance in standard form?

5,880,000,000,000

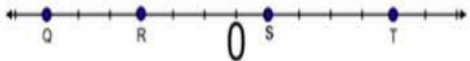
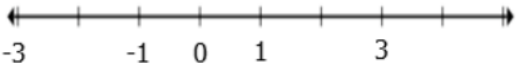
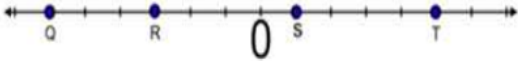
- 24.) The nearest star beyond the sun is about 2.5×10^{13} miles away. What is this distance in standard form?


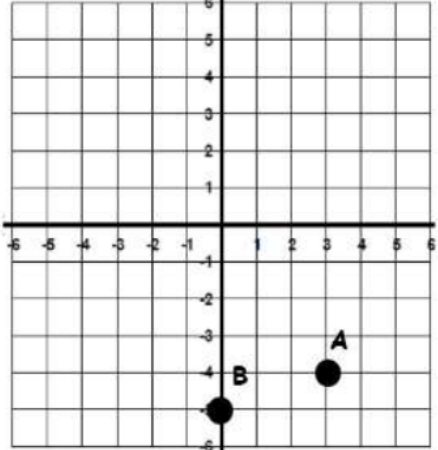
25,000,000,000,000

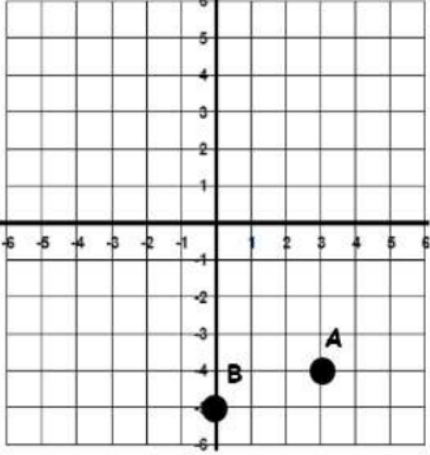
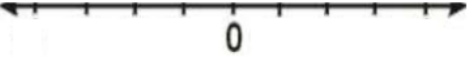
1. Complete the Google Classroom assignment for Scientific Notation Review
2. Complete the Unit 1 Test Review and turn in when done
3. IXL 6th grade Scientific Notation
Lessons E.1, E.2

New log in method - Clever

Unit 1 Advanced Math 6 Review

Solve.	
1. $-16 + 25$	2. $6 - (-9)$
3. $(-17) + (-5)$	4. $-7 \cdot -8$
5. $\frac{48}{-6}$	6. $-4 \cdot 8 - 5$
7. On Friday Kelly had \$0 in her bank account. On Saturday, Kelly made a deposit of \$10 and another deposit of \$15. How much money is in Kelly's bank account?	8. Write 4,350,000 in scientific notation.
9. Write 6.37×10^7 in standard notation.	10. Which square root has a value of 7? A. $\sqrt{7}$ B. $\sqrt{14}$ C. $\sqrt{49}$ D. $\sqrt{70}$
11. What is the $\sqrt{324}$?	12. What integer represents point T? 
13. Write an integer for each real life situation below and then plot the integers on the number line. A withdrawal of \$1 _____ 	14. Which point on the number line represents the greatest integer? 
15. Which statement is true? A -10°C is warmer than -4°C B -3 is located to the left of -8 on a number line C 5°C is warmer than -2°C D $85 > -89$	16. Which statement is not true? A $-4 > -5$ B $-2 < -6$ C $7 > -9$ D $-5 < -1$
17. Which statement is true? A $-469 > -257$ B $6,423 < -7,274$ C $-83,815 > -41,937$ D $85 > -89$	18. Which list has the integers in order from least to greatest? A $-9 < -6 < -20 < -4$ B $-4 < -6 < -9 < -20$ C $-20 < -6 < -4 < -9$ D $-20 < -9 < -6 < -4$

<p>19. What is true about -2 and 2?</p>	<p>20. Circle the numbers with an absolute value of 5.</p> <p>25 5 10 $\frac{1}{5}$ 0 -2 -5 -25</p>
<p>21. Joe climbed a tree and went 8 feet up. Identify the integer that is the opposite.</p> <p>A 8 B $\frac{1}{8}$ C $-\frac{1}{8}$ D -8</p>	<p>22. Based on the geometric pattern shown, what is the value of 6^5?</p> <p>$6^1 = 6$ $6^2 = 36$ $6^3 = 216$ $6^4 = 1296$</p>
<p>23. The first four figures in a pattern are shown.</p> <p>If the pattern continues by adding another row and column of dots to the previous group, how many dots will be in the next group?</p> 	<p>24. Which of the following expressions is not equivalent to 81?</p> <p>A 3^4 B 9^2 C 9^9</p>
<p>25. Identify all perfect squares.</p> <p>1 9 16 24 50 144 196 256 369</p>	<p>26. What is the value of 10^{-3} as a fraction and decimal?</p>
<p>Use the coordinate plane to answer questions 27, 28, 29, and 30.</p> 	<p>27. How would you plot the point (2, -4) on the coordinate plane? Begin at the origin and then describe how you would move:</p>
<p>28. What are the coordinates of point B?</p>	<p>29. (3, 0) is located on the _____</p>

<p>30. How many units is point B from the x-axis?</p>	<p>31. Which quadrant is (-4, -3) in?</p>
<p>32. Create an ordered pair located on y-axis by using the numbers provided.</p> <p style="text-align: center;">(,)</p> <p style="text-align: center;">-7 2 0 3 -5</p>	<p>33. Label the x-axis and y-axis and each quadrant (I, II, III, IV) on the coordinate plane below.</p> 
<p>34. Which point represents the absolute value of -2?</p> <p style="text-align: center;">A B C D</p> 	<p>35. Solve. $\left -\frac{1}{4} \right$</p>
<p>36. On a number line, what is the distance between -4 and 8?</p>	<p>37. What is equivalent to 10^{-5}?</p>
<p>38. Circle the integers.</p> <p style="text-align: center;">$\frac{6}{4}$ $-\frac{10}{2}$ -8.2 0 $\frac{1}{2}$ -2 5^3 9</p> <p>Order the integers from least to greatest.</p> <p>_____</p> <p>Choose a number from above and explain why it is or is not an integers using math vocabulary.</p>	