

Solve.

back of 30

$$-3 - 8 \quad 2 - (-10) \quad -5 + 9$$

$$\sqrt{196} \quad -\sqrt{324}$$

What are the rules for multiplying and dividing integers?

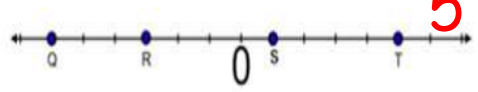
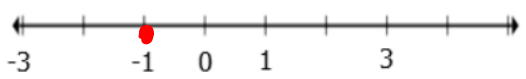
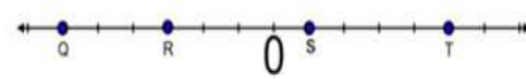
Write 10^{-5} as a fraction and decimal.


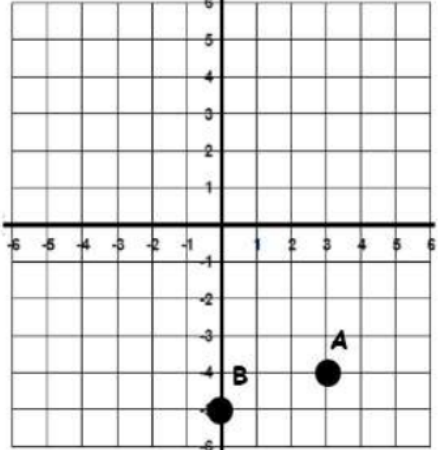
Write in scientific notation/standard form.

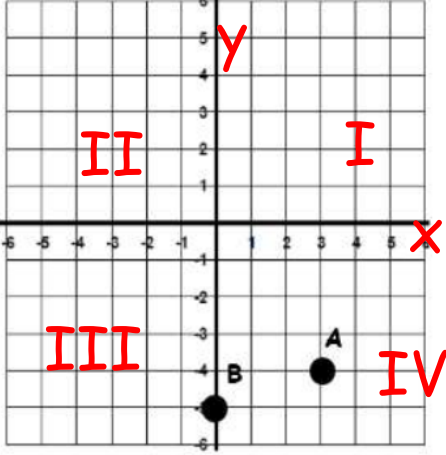
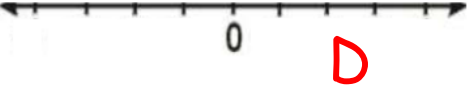
$$0.0000416 \quad 39,000,000$$

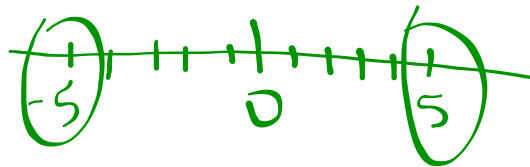
$$1.78 \times 10^8 \quad 6.4 \times 10^{-3}$$

Unit 1 Advanced Math 6 Review

Solve.	
1. $-16 + 25$ 9	2. $6 - (-9)$ 15
3. $(-17) + (-5)$ -22	4. $-7 \cdot -8$ 56
5. $\frac{48}{-6}$ -8	6. $-4 \cdot 8 - 5$ -37
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? \$25	8. Write 4,350,000 in scientific notation. 4.35×10^6
9. Write 6.37×10^7 in standard notation. 63,700,000	10. Which square root has a value of 7? A. $\sqrt{7}$ B. $\sqrt{14}$ C. $\sqrt{49}$ D. $\sqrt{70}$ C
11. What is the $\sqrt{324}$? 18	12. What integer represents point T?  5
13. Write an integer for each real life situation below and then plot the integers on the number line. A withdrawal of \$1 <u>-1</u> 	14. Which point on the number line represents the greatest integer?  T
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 $85 > -89$ C, D	16. Which statement is not true? A $-4 > -5$ B $-2 < -6$ C $7 > -9$ D $-5 < -1$ B
17. Which statement is true? A $-469 > -257$ B $6,423 < -7,274$ C $-83,815 > -41,937$ D $85 > -89$ D	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 $-20 < -9 < -6 < -4$ D

<p>19. What is true about -2 and 2?</p> <p>absolute value is 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>D</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>7,776</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>36</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>C</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>$\frac{1}{1000}$ 0.001</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>right 2 units down 4 units</p>
<p>28. What are the coordinates of point B?</p> <p>(0, -5)</p>	<p>29. (3, 0) is located on the _____</p> <p>x axis</p>

<p>30. How many units is point B from the x-axis?</p> <p style="text-align: center; color: red; font-size: 2em;">5</p>	<p>31. Which quadrant is (-4, -3) in?</p> <p style="text-align: center; color: red; font-size: 2em;">III</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 style="text-align: center; color: red; font-size: 2em;">(0 , any number)</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 style="text-align: center; color: red; font-size: 2em;">D</p>	<p>35. Solve. $\left -\frac{1}{4} \right$</p> <p style="text-align: center; color: red; font-size: 2em;">1/4</p>
<p>36. On a number line, what is the distance between -4 and 8?</p> <p style="text-align: center; color: red; font-size: 2em;">4</p>	<p>37. What is equivalent to 10^{-5}?</p> <p style="text-align: center; color: red; font-size: 2em;">1/100000, 0.00001</p>
<p>38. Circle the integers.</p> <p style="text-align: center;"> $\frac{6}{4}$ $\left(-\frac{10}{2} \right)$ -8.2 $\left(0 \right)$ $\frac{1}{2}$ $\left(-2 \right)$ $\left(5^3 \right)$ $\left(9 \right)$ </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>	<p style="text-align: center; color: red; font-size: 2em;">-10/2, 0, -2 , 9, 5^3</p>



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