

Name _____

Math 8R: Mrs. Roubos

Date _____

Period _____

Take Home Quiz #3

SHOW ALL ORGANIZED WORK DUE:

<p>1. [2] The square root of 175 is between which two whole numbers?</p> <p>A. 9 and 10 B. 14 and 15 C. 13 and 14 D. 160 and 170</p>	<p>2. [3] Evaluate the following expression when $x = -3$ and $y = 5$</p> <p style="text-align: center;">$4x^2y$</p>
<p>3. [2] Which has a greater value?</p> <p>3.2×10^5 or 1.13×10^6</p>	<p>4. [2] True or False: ^{part of} The integer set is a subset of the irrational number set.</p>
<p>5. [4] Simplify the following expression by using the <u>commutative property</u>. (Group like terms, then simplify)</p> <p style="text-align: center;">$-8x^2 + 5x + 3x^2 - 2x$</p> <p>Group → _____</p> <p>Combine → _____</p>	<p>6. [2] What is the value of $\sqrt[3]{\frac{8}{27}}$.</p>
<p>7. [4] Solve the following equation for x.</p> <p>$3(x - 2) + 2x = 4$</p>	<p>8. [4] Solve for x.</p> <p>$x - 9 + 7x = -49 - 2x$</p>

<p>9. Solve the following, Show work! Leave $(4.26 \times 10^{-7}) + (3.1 \times 10^{-7})$ <u>answer in scientific notation</u> [3]</p>	<p>10. Simplify using a positive exponent: 8^{-2} Leave in <u>fraction form</u> [2]</p>
<p>11. Solve algebraically for x: $x^2 = 100$ <u>Show work!</u> [2]</p>	<p>12. What is 0.000045 in <u>scientific notation</u>? [2]</p>
<p>13. <u>Solve</u> the equation. Then say if it has <u>one</u>, <u>none</u> or an <u>infinite amount</u> of solutions. ✖ [4] $3\left(\frac{2}{3}x - 1\right) = 5$</p>	<p>14. <u>Solve</u> the equation. Then say if it has <u>one</u>, <u>none</u> or an <u>infinite amount</u> of solutions. ✖ [5] $8x - 3 = 4(2x - 3)$</p>
<p>15. <u>Solve</u> the equation. Then say if it has <u>one</u>, <u>none</u> or an <u>infinite amount</u> of solutions. ✖ [4] $5(4x - 2) = -10(-2x + 1)$</p>	<p>16. <u>Solve</u> the equation. Then say if it has <u>one</u>, <u>none</u> or an <u>infinite amount</u> of solutions. ✖ [5] $3 + 3m + 1 = 2m + 6 + m$</p>