

Name _____

Math 8R: Mrs. Roubos

Date _____

Period _____

Take Home Quiz #1
SHOW ALL ORGANIZED WORK

DUE:

<p>1. $[3]$ The square root of 72 is between which two whole numbers?</p> <p>A. 2 and 3 B. 6 and 7</p> <p>C. 8 and 9 D. 9 and 10</p>	<p>2. True or False.</p> <p>$[2]$ 0 is in the set of natural numbers?</p>
<p>3. $[3]$ Which has the greater value?</p> <p>$-\frac{5}{8}$, -3, or $-\sqrt{2}$?</p>	<p>4. Evaluate to the nearest hundredth: Show work.</p> <p>$[3]$ $5\sqrt{2} + \sqrt{3}$</p>
<p>5. $[4]$ $\sqrt{42}$ is between which 2 integers? Then tell me which integer it is closer to. (show work the long way)</p>	<p>6. $[6]$ $\sqrt{20}$ is between which 2 integers? Then tell me which integer it is closer to. Then tell me what it is to the nearest <u>tenths</u> place. (show work the long way)</p>
<p>7. $[2]$ What is the value of $\sqrt{\frac{64}{81}}$?</p>	<p>8. $[3]$ The square root of 12 is an irrational number.</p> <p>True or False</p> <p>Explain.</p> <p>_____</p> <p>_____</p> <p>_____</p>

<p>9. Convert $\overline{0.27}$ to an equivalent fraction. [2]</p>	<p>10. Circle the rational number. [2] -8.345 π $\sqrt{28}$ 4.2658921.....</p>						
<p>11. 15 is the square root of what number. [2]</p>	<p>12. Describe a decimal that is irrational. [2]</p>						
<p>13. Classify the number 0. [3] (Give the sets it is in.)</p>	<p>14. Is the fraction $\frac{11}{0}$ real or not real? Why? [2]</p>						
<p>15. What is the value of $\sqrt{27}$ to the nearest hundredths place? Use your calculator. [2]</p>	<p>16. Write .8 as a fraction in simplest form. [2]</p>						
<p>17. What is the value of $\sqrt[3]{125}$? [2]</p>	<p>18. What is the next perfect square after 225? [2]</p>						
<p>19. <u>Match</u> each set of number with the appropriate definition. (Write the CAPITAL letter of your choice.) [3]</p> <table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%;">Rational Numbers _____</td> <td style="width: 50%;">A. All whole numbers and their opposites.</td> </tr> <tr> <td>Integers _____</td> <td>B. Non-terminating and non-repeating decimals</td> </tr> <tr> <td>Irrational Numbers _____</td> <td>C. Numbers that can be converted to fractions.</td> </tr> </tbody> </table>		Rational Numbers _____	A. All whole numbers and their opposites.	Integers _____	B. Non-terminating and non-repeating decimals	Irrational Numbers _____	C. Numbers that can be converted to fractions.
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