

Math 8 Unit 2 Real Review

Show work OR write an explanation of how you arrived at your answer. Work or explanation is required!! Write the letter of your final answers in the answer box.

- | | |
|---|--|
| <p>1. Which is a rational number and an integer?
 A $-\frac{5}{4}$ B -1.03 C $-(7^2)$ D $\sqrt{42}$</p> <p>2. Which number is irrational?
 A. 1.6739 B. $\sqrt{14}$ C. $6.\overline{23}$ D. $\frac{8\pi}{\pi}$</p> <p>3. Which number is rational?
 A. π B. $\sqrt{5}$ C. -9 D. $2\sqrt{6}$</p> <p>4. Which number is an integer?
 A. $\sqrt{16}$ B. $\sqrt{27}$ C. $-\sqrt{10}$ D. $\sqrt{117}$</p> <p>5. Which is a proper classification of -9.21?
 A. Rational and negative
 B. Irrational and decimal
 C. Irrational and negative
 D. Rational and integer</p> | <p>6. Which is a proper classification of -6.789.....?
 A. Rational and whole
 B. Rational and integer
 C. Irrational and integer
 D. Irrational and real</p> <p>7. Which of the following answers describes the set of numbers that $\sqrt[3]{-64}$ belongs to?
 A. Prime
 B. Integers only
 C. Irrational only
 D. Both integers and rational</p> <p>8. Which is an irrational number?
 A $-7.171771777\dots$ B $\sqrt{49}$ C $\sqrt{-49}$ D $-\sqrt{49}$</p> <p>9. Which name does <u>not</u> apply to $\frac{\sqrt{16}}{2}$?
 A integer B irrational number
 C rational number D real number</p> <p>10. Which number is between 14 and 15?
 A. $\sqrt{200}$ B. $\sqrt{190}$ C. $\sqrt{100}$ D. $\sqrt{228}$</p> |
|---|--|

- Answers**
1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____

11. Describe the similarities & differences between irrational & rational numbers.

12. Simplify
 $6739 \bullet \sqrt{14}$

13. Simplify
 $.8\overline{3} + 4$

14. Simplify
 $4(\overline{.35})$

15. Convert to fraction
 $\overline{.46}$

16. Convert to fraction
 $3.\overline{12}$

17. Convert to fraction
 $4.\overline{285}$

18. Convert to fraction
 $\overline{.723}$

19. Place the following on a number line.

$$\sqrt{12}, \sqrt{15}, 4.3, \sqrt{9}, \frac{14}{5}$$



20. Place the following on a number line.

$$\sqrt{65}, \sqrt{60}, 8.5, \frac{37}{4}$$



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____