

Extra REVIEW for Number System Quiz #1

Directions: Show all work where necessary. Please write your final answer on the available line.

<p>1-2. Circle the set or sets the given numbers are in.</p> <p>1. -2.7 Natural Whole Integer Rational Irrational Real</p> <p>2. 6 Natural Whole Integer Rational Irrational Real</p>	<p>3. True or False.</p> <p>All natural numbers are whole numbers.</p> <p>_____</p>
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4. Place the following numbers in the Venn Diagram below.

7 -12 -2.89 π $\sqrt{9}$ $7\frac{1}{2}$ $6.\bar{1}$ 2

REAL NUMBERS

Rational

Integers

Whole Numbers

Natural/Counting

Irrational

<p>5. Which number is <u>not real</u>?</p> <p>$\sqrt{5}$ 2π $\sqrt{-36}$ _____</p>	<p>6. Is -6 an integer?</p> <p>_____</p>
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<p>7. What is the value of $\sqrt{144}$?</p> <p>_____</p>	<p>8. What is the value of $\sqrt{-25}$?</p> <p>_____</p>
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<p>9. Convert $\frac{1}{12}$ to a decimal.</p> <p>_____</p>	<p>10. What is the place value of the underlined digit in the decimal 17.<u>0</u>129?</p> <p>A. Tenths B. Hundredths C. Thousandths D. Ones</p> <p>_____</p>
<p>11. Is the decimal 0.15 a rational number?</p> <p>_____</p> <p>Explain why or why not below.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>12. Convert $\frac{7}{9}$ to a decimal (Use long division)</p>
<p>13. Reduce $\frac{49}{77}$ to simplest form.</p> <p>_____</p>	<p>14. Give one natural number.</p> <p>_____</p>
<p>15. Which of the following is an irrational number?</p> <p>A. 3.14 B. 2.0725 C. -3π D. $\frac{22}{7}$</p> <p>_____</p>	<p>16. Write -5.14 as a mixed number in simplest form.</p> <p>_____</p>
<p>17. What type of decimal is 2.45?</p> <p>_____</p>	<p>20. Is $\sqrt{12}$ Rational or Irrational?</p>

Extra REVIEW for Number System Quiz #1

Directions: Show all work where necessary. Please write your final answer on the available line.

<p>1-2. Circle the set or sets the given numbers are in.</p> <p>1. -2.7 Natural Whole Integer <u>Rational</u> Irrational <u>Real</u></p> <hr style="border: 1px solid black;"/> <p>2. 6 <u>Natural</u> <u>Whole</u> <u>Integer</u> <u>Rational</u> Irrational <u>Real</u></p>	<p>3. True or False.</p> <p>All natural numbers are whole numbers.</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; margin: 10px;"> Whole NATURAL </div> <p style="text-align: right; margin-top: 20px;"><u>True</u></p>
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4. Place the following numbers in the Venn Diagram below.

7 -12 -2.89 π $\sqrt{9}$ $7\frac{1}{2}$ $6\bar{1}$ 2

REAL NUMBERS

Irrational

5. Which number is not real?

$\sqrt{5}$ 2π $\sqrt{-36}$ $\sqrt{-36}$

6. Is -6 an integer?

Yes b/c it is a whole # that is negative.

7. What is the value of $\sqrt{144}$?

Calc: $\boxed{2na} \times^2$ 12

8. What is the value of $\sqrt{-25}$?

NOT-real

9. Convert $\frac{1}{12}$ to a decimal.

$$\begin{array}{r} 0.0833 \\ 12 \overline{) 1.0099} \\ \underline{-96} \\ 40 \\ \underline{-36} \\ 40 \\ \underline{-36} \\ 4 \end{array}$$

.083

10. What is the place value of the underlined digit in the decimal 17.0129?

- A. Tenths
- B. Hundredths
- C. Thousandths
- D. Ones

A

11. Is the decimal 0.15 a rational number?

yes

Explain why or why not below.

B/c it is a terminating decimal that can be written as a fraction where the denominator is not zero

12. Convert $\frac{7}{9}$ to a decimal (use long division)

$$\begin{array}{r} .777 \\ 9 \overline{) 7.77} \\ \underline{-63} \\ 10 \\ \underline{-9} \\ 10 \\ \underline{-9} \\ 10 \end{array}$$

13. Reduce $\frac{49}{77}$ to simplest form.

use the $\boxed{A\%}$ button to check!

$\frac{7}{11}$

14. Give one natural number.

6

15. Which of the following is an irrational number?

- A. 3.14
- B. 2.0725
- C. -3π
- D. $\frac{22}{7}$

NON-terminating and NON-repeating decimal

16. Write -5.14 as a mixed number in simplest form.

$$-5 \frac{14}{100}$$

$-5 \frac{7}{50}$

use $\boxed{2nd}$ \boxed{PRB} to get the answer

17. What type of decimal is 2.45?

terminating
B/c it stops

20. Is $\sqrt{12}$ Rational or Irrational?

Irrational B/c $\sqrt{12}$ is a non-terminating and non-repeating decimal that can't be written as a fraction.

$$\begin{array}{r} 737373 \\ 073 \\ \hline 73 \\ 100 \end{array}$$

$$\frac{73}{99}$$

where the denominator is not zero