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Types of Numbers

① **Analyze the statements about the different number types.**

② Explain the different types of numbers.

③ Place each number in the smallest possible set.

④ Identify which numbers don't belong to the given number type.

⑤ Assign each number to its correct number type.

⑥ Decide to which number type the number belongs.

＋ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

> ⚠ The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.

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Analyze the statements about the different number types.

Highlight all the numbers belonging to the corresponding number system.

◇ correct

1 We start with the natural numbers such as 11, 21 and -6.

2 The natural numbers, together with -1, form the whole numbers.

3 Integers are numbers like -3, $-\frac{2}{3}$ and -99.

4 The rational numbers are fractions such as $\frac{1}{4}$ or decimals that terminate, like 8.1, or repeat, like $-2\sqrt{5}$.

5 Irrational numbers are not repeating decimals nor can they be written as fractions like $-\frac{2}{3}$ or π.

Hints for solving these problems

1 of 6   Analyze the statements about the different number types.

Hint #1

Natural numbers are positive. So, if a is a natural number, then $a > 0$.

Hint #2

The number 0, together with the natural numbers form the set of whole numbers.

Hint #3

$\frac{1}{3} = 0.\overline{3}$ is an example of a repeating decimal, and 7.5 is an example of a rational number.

Answers and detailed answer explanations for these problems

1 of 6 **Analyze the statements about the different number types.**

Answer key: correct: 1, 2, 5, 7, 8, 9, 12

We start with the **natural** numbers such as $11, 21$. -6 is not a natural number.

The natural numbers, together with 0, form the **whole** numbers. -1 is not a whole number.

Integers are numbers like -3 and -99. $-\frac{2}{3}$ is not an integer.

The **rational** numbers are fractions such as $\frac{1}{4}$ or decimals that terminate, like 8.1, or repeat. $-2\sqrt{5}$ is not a rational number.

Irrational numbers are not repeating decimals nor can they be written as fractions like π. $-\frac{2}{3}$ is not an irrational number.