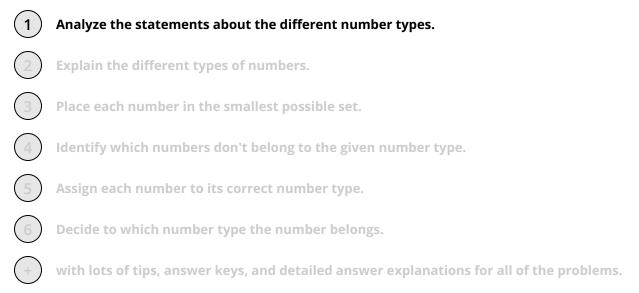
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# **Types of Numbers**







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



## Analyze the statements about the different number types.

Highlight all the numbers belonging to the corresponding number system.



- $oxed{1}$  We start with the natural numbers such as 11, 21 and -6
- $oxed{2}$  The natural numbers, together with -1, form the whole numbers.
- Integers are numbers like -3,  $-\frac{2}{3}$  and -99.
- The rational numbers are fractions such as  $\frac{1}{4}$  or decimals that terminate, like 8.1 , or repeat, like  $-2\sqrt{5}$
- Irrational numbers are not repeating decimals nor can they be written as fractions like  $-\frac{2}{3}$  or  $\pi$ .

### Hints for solving these problems



### 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

 $rac{1}{3}=0.ar{3}$  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



### 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  $\pi$ .  $-\frac{2}{3}$  is not an irrational number.

