

# Section 7.R.1 The Decimal System

Go to Section 7.R.1 Learn mode in Hawkes to follow along!

## The Decimal System

### Whole Numbers

The **whole numbers** are \_\_\_\_\_ along with \_\_\_\_\_

**Natural numbers** =  $\mathbb{N}$  = { \_\_\_\_\_ }

**Whole numbers** =  $\mathbb{W}$  = { \_\_\_\_\_ }

### The Decimal System

The **decimal system** (or base ten system) is a place value system that depends on three things.

1. the \_\_\_\_\_
2. the placement of \_\_\_\_\_
3. the value of \_\_\_\_\_

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#### ▣ Example 1 Understanding Place Value

Given the number 350,472, which digit indicates the number of

a. thousands?

b. tens?

c. hundreds?

**Solution**

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#### ▣ Example 2 Understanding Place Value

For the number 37,895, state the place value of each digit.

**Solution**

## Exercises

Solve

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- Given the number 284,065, which digit indicates the number of
  - tens?
  - ten thousands?
  - hundreds?
- Given the number 13,476,582, which digit indicates the number of
  - thousands?
  - millions?
  - ten millions?
- For the number 71,349, state the place value of
  - the digit 7.
  - the digit 3.
  - the digit 9.
- For the number 309,472, state the place value of
  - the digit 9.
  - the digit 4.
  - the digit 7.
- Name the place value of each nonzero digit in the following number: 24,608.
- Name the place value of each nonzero digit in the following number: 34,708.
- Name the place value of each nonzero digit in the following number: 2,403,189,500.
- Name the place value of each nonzero digit in the following number: 48,569,102,340.