## Lesson 8: Different Representations of Tens and Ones

* Let’s think about how two-digit numbers can be shown.

### Warm-up: Estimation Exploration: How Many?

1. How many do you see?
* 
* Record an estimate that is:

| * too low
 | * about right
 | * too high
 |
| --- | --- | --- |
| * $$
 | * $$
 | * $$
 |

1. How many do you see?
* 
* Record an estimate that is:

| * too low
 | * about right
 | * too high
 |
| --- | --- | --- |
| * $$
 | * $$
 | * $$
 |

### 8.1: Compare Representations of a Collection

Each student counted and showed a collection.

* Clare drew
* 
* Han drew
* 
* Kiran wrote 3 ones and 7 tens.
* Priya wrote $70+3$.

Did the students count the same number of objects?
How do you know?
Show your thinking using drawings, numbers, or words.

### 8.2: Card Sort: Base-ten Representations

Your teacher will give you a set of cards that show different representations of a two-digit number. Find the cards that match. Be ready to explain your reasoning.









© CC BY 2021 Illustrative Mathematics®