## Unit 8 Lesson 15: Estimation Exploration

### WU Estimation Exploration: Umbrellas (Warm up)

#### Student Task Statement

How many umbrellas are there?



Record an estimate that is:

|  |  |  |
| --- | --- | --- |
| too low | about right | too high |
|  |  |  |

### 1 Design Your Estimation Exploration

#### Student Task Statement

1. Find an image that would encourage your classmates to estimate the total number of an item using strategies for multi-digit multiplication.
2. Fill in the possible estimates students might make.

* Record an estimate that is:

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

### 2 Facilitate Your Estimation Exploration

#### Student Task Statement

1. Display your image for your classmates.
2. Ask them, “What is an estimate that’s too high?” “Too low?” “About right?”
3. Give them a minute of quiet think time.
4. Give them a minute to discuss together.
5. Have them share estimates.
6. Record their ideas.



© CC BY 2021 Illustrative Mathematics®