



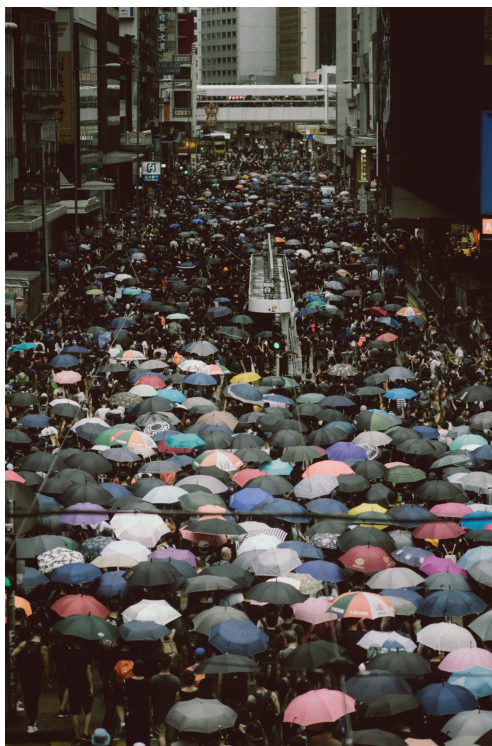
# Estimation Exploration

Let's create an *Estimation Exploration*.

Warm-up

## Estimation Exploration: Umbrellas

How many umbrellas?



Record an estimate that is:

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

Activity 1

Design Your Estimation Exploration

- 1. Find an image that encourages 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 |
|---------|-------------|----------|
|         |             |          |

## Activity 2

### Facilitate Your Estimation Exploration

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.