Order-of-Magnitude Estimation
Baby Weight (Level 3)

The Question
How many babies are born in the US each year with a weight greater than 10 pounds?

Background
The US population is continually changing, with a large number of babies born each day. Some of these are heavier than average, but how many?

The Solution
Education Standards

This OoM Estimation problems meets the following standards in **bold**:

*Next Generation Science Standards (NGSS):*

- Physical Sciences
  - Matter & Its Interactions
  - Motion and Stability: Forces and Interactions
  - Energy
  - Waves and Their Applications in Technologies for Information Transfer

- Life Sciences
  - From Molecules to Organisms: Structures and Processes
  - Ecosystems: Interactions, Energy, and Dynamics
  - Heredity: Inheritance and Variation of Traits
  - **Biological Evolution: Unity and Diversity**

- Earth and Space Sciences
  - Earth’s Place in the Universe
  - Earth’s Systems
  - Earth and Human Activity

- Engineering, Technology, and Applications of Science
  - Engineering Design

*Common Core Standards (CSS):*

- Counting & Cardinality
- Operations & Algebraic Thinking
- Numbers & Operations in Base Ten
- Number & Operations — Fractions
- Measurement & Data
- Geometry
- Ratios & Proportional Relationships
- The Number System
- Expressions & Equations
- Functions
- Statistics & Probability