

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**