

Solutions 1

1. Declaration of Independence

Answer: $2025 - 1776 = 249$.

The Declaration was signed 249 years ago.

2. Liberty Bell

Answer:

- Original Weight = 2,080 pounds
- Removed Weight = 150 pounds
- New Weight = $2,080 - 150 = 1,930$ pounds

The Liberty Bell now weighs 1,930 pounds.

3. Constitutional Fractions

Answer:

- Total Articles = 7
- Articles on Government = 3
- Fraction = $\frac{3}{7} = 0.\overline{428571} \approx 0.43$

The fraction of articles about the branches of government is $\frac{3}{7}$.

4. Calculating Feed for Cattle

Answers: Total hay per week = $25 \times 12 \times 7 = 2100$ pounds.

5. Baking for a Community Event

Answer: Total apples = $10 \times 1.5 = 15$ pounds.

6. Fencing the Ranch

Answer: Perimeter = $2 \times (100 + 50) = 2 \times 150 = 300$ square feet.