



Olympic Medal Math

Population Story Problems

Answer all 10 right:

Gold Medal Performance!

Answer 8 or 9 right:

Silver Medal Performance!

Answer 6 or 7 right:

Bronze Medal Performance!

These are the top 10 medal winning countries from the 2006 Torino Olympics and their estimated current populations. Use this information to answer the questions below.

Germany	82,060,000	USA	308,257,000	Canada	33,892,000
Austria	8,356,707	Russia	141,909,279	Norway	4,850,440
Sweden	9,325,429	Italy	60,200,060	South Korea	48,379,392
Switzerland	7,739,100				

1. List the countries in order from the largest to the smallest population.
2. Which two countries populations add up to 43,217,429?
3. Germany won the most medals at the Torino Olympics. Did the most populated country win the most medals?
4. Take the largest populated country, USA, and subtract the population of the lowest populated country, Norway. What is your answer?
5. What is the total population of Canada, Austria, and Switzerland?
6. If 51% of the population of the USA are female, how many people in the USA are female?
7. Using the answer from #6, how many people in the USA are male?
8. What is the total population of all 10 countries?
9. What percentage of the population of all 10 countries live in the USA?
10. Canada's population is currently growing at about 1% per year. What will Canada's population be next year?

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Answer Key

1. USA, Russia, Germany, Italy, South Korea, Canada, Sweden, Austria, Switzerland, Norway

2. Sweden and Canada

3. No

4. 303,406,560 people

5. 49,987,807 people

6.
$$\begin{array}{r} 308,257,000 \\ \times \quad \quad 0.51 \\ \hline 157,211,070 \text{ female people} \end{array}$$

7.
$$\begin{array}{r} 308,257,000 \\ - 157,211,070 \\ \hline 151,045,930 \text{ male people} \end{array}$$

8. 704,969,407 people

9. Percent = USA Population \div TOTAL Population \times 100

$$308,257,000 \div 704,969,407 \times 100 = 43.7\% \text{ live in the USA}$$

10. Population next year =
Current Population + (Current Population \times 1%)
$$= 33,892,000 + (33,892,000 \times 0.01)$$
$$= 33,892,000 + 338,920$$
$$= 34,230,920 \text{ people}$$