Demographic Group Performance Analysis Report

1. How do male and female students compare in proficiency rates across all subjects?

- **Male Proficiency Rate**: **45.72%**
- **Female Proficiency Rate**: **48.25%**
- **Difference**: Female students outperform male students by **2.53%** on average.

2. Which racial/ethnic group has the highest mean scores in Math?

- **Highest Mean Score in Math**:
    - **Group**: **Asian or Native Hawaiian/Other Pacific Islander**
    - **Mean Score**: **466.93**

This group demonstrates significantly higher performance in Math compared to other racial/ethnic groups.

3. Are there significant differences in proficiency rates for students with disabilities versus general education students?

- **Students with Disabilities Proficiency Rate**: **18.78%**
- **General Education Students Proficiency Rate**: **52.03%**
- **Difference**: **33.24%**

This highlights a significant gap, indicating a need for targeted interventions to support students with disabilities.

4. What percentage of economically disadvantaged students scored proficient in Science?

- **Proficiency Rate in Science for Economically Disadvantaged Students**: **33.16%**

This low proficiency rate underscores the need to address resource disparities and provide additional support for economically disadvantaged students in Science.

5. How do proficiency rates for migrant students compare to non-migrant students?

- **Migrant Students Proficiency Rate**: **15.30%**
- **Non-Migrant Students Proficiency Rate**: **47.32%**
- **Difference**: **32.02%**

Migrant students face substantial challenges in achieving proficiency, highlighting the need for focused interventions and resources to close this gap.

Key Insights

1. **Gender Differences**:
    - Female students consistently outperform male students across all subjects, although the difference is modest.
2. **Ethnic Disparities in Math**:
    - Asian or Native Hawaiian/Other Pacific Islander students excel in Math, achieving the highest average scores.
3. **Support for Vulnerable Groups**:
    - Students with disabilities, economically disadvantaged students, and migrant students show significantly lower proficiency rates compared to their peers.

Recommendations

1. **Gender-Sensitive Strategies**:
    - Investigate the reasons for the gender gap and design interventions to support male students in improving their performance.
2. **Resource Allocation**:
    - Provide additional support to groups with lower proficiency rates, including students with disabilities, economically disadvantaged, and migrant students.
3. **Leverage Success**:
    - Study the practices in high-performing groups like Asian or Native Hawaiian/Other Pacific Islander students to identify effective strategies for Math education.