

### **Diversity in Mathematics Practice Quiz**

1. Which of the following statements about Argelia Vélez-Rodríguez is true? (Select all that apply)
  - a. She was the first Black woman to receive a doctorate in mathematics in Cuba
  - b. She taught at the Mariana Institute
  - c. She became an appointed chair of the Department of Mathematical Science in Bishop College
  - d. None of the above
2. In which city did Argelia Vélez-Rodríguez become manager of the Minority Institutions Science Programme?
  - a. New York
  - b. Houston
  - c. Washington DC
  - d. Chicago
3. What of these is Kathleen Ollerenshaw associated with?
  - a. Rubik's Cube
  - b. Factor Theorem
  - c. Binomial Theorem
  - d. Euclidean Algorithm
4. Which organisation did Kathleen Ollerenshaw play a crucial role in the formation of?
  - a. London Mathematical Society
  - b. Royal Northern College of Music
  - c. Royal Statistical Society
  - d. Institute of Mathematics and its Applications
5. What is Noether's theorem about?
  - a. Developing Subliminal Learning
  - b. Linking symmetries to conservation laws
  - c. Linking differential equations to study astronomical orbits
  - d. None of the above
6. Nalini Joshi became the first woman in Australia who
  - a. continued a PhD in Mathematics focusing non-linear differential equations
  - b. was appointed as a Professor of Mathematics at the University of Sydney

- c. become the president of Australian Mathematics Society
  - d. joined the Australian Mathematics Trust
- 7. In recognition of her significant service to mathematics education, research, and gender equity in STEM disciplines, Nalini Joshi was appointed a member of the ‘Order of Australia’ in
  - a. 2007
  - b. 2010
  - c. 2016
  - d. 2020**
- 8. Who was the first female mathematics professor in the world?
  - a. Nalini Joshi
  - b. Sofia Kovalevskaya**
  - c. Emmy Noether
  - d. Kathleen Ollerenshaw
- 9. What of these was Taqi ad-Din known for being?
  - a. A mathematician
  - b. An astronomer
  - c. A polymath**
  - d. An engineer
- 10. Which invention by Taqi ad-Din was an early version of the steam turbine?
  - a. Self-rotating spit**
  - b. Water pump
  - c. Condenser
  - d. The Aeolipile