

Name _____

Unraveling Quadratic Equations: Solving Puzzles in the Real World

Open-Ended Response Answer Key

1. Yes, quadratic equations might be used to design arches in buildings, such as bridges or doorways.
2. Quadratic equations can be used to model profit and cost functions in businesses, helping analyze financial data and make informed decisions.
3. Quadratic equations accurately describe the curved path followed by a projectile, allowing us to predict where it will land and aim more precisely.
4. Quadratic equations are like puzzle pieces because they fit together to solve complex problems in various fields, such as physics, engineering, and economics.

