## UNIT 3 • MODELING AND ANALYZING QUADRATIC FUNCTIONS
Lesson 3: Interpreting and Analyzing Quadratic Functions

### Problem-Based Task 3.3.2: Window Washers

A window washer tossed a wet sponge from a height of 10 meters above ground level to his coworker above him. The sponge reached its maximum height of 11.25 meters exactly 0.5 second later, but the coworker did not catch the sponge and it fell to the ground. After how many seconds did the sponge fall to a height of 10 meters? What is the span of time that the sponge was in the air?

| SMP | |
|---|---|
| 1 ✓ | 2 ✓ |
| 3 | 4 |
| 5 | 6 ✓ |
| 7 | 8 |

*After how many seconds did the sponge fall to a height of 10 meters?*

*What is the span of time that the sponge was in the air?*