

NAME _____

DATE _____

Module 16 Solving Rational Equations
Lesson 4 Solving Various Types of Problems
 Using Rational Equations

**guided
 notes**

Lesson Objectives

- Solve work problems.
- Solve uniform motion problems.

The work equation is _____.

- 1** A hot-water faucet fills a tub in 14 minutes. The hot- and cold-water faucets together can fill the tub in six minutes. How long would it take the cold-water faucet alone to fill the tub?
- _____

The equation used to find distance is distance = _____.

- 2** Plane 1 flies 1,280 miles. Plane 2 flies 1,120 miles in the same time. Plane 2 flies 80 miles per hour slower than a Plane 1. What is the speed of Plane 1?
- _____

- 3** Vince biked 40 miles to the beach and then made the return trip at twice the speed. The entire trip took five hours. Find Vince's speed on the way to the beach.
- _____



