

Solving linear equations and inequalities

Student Activity Sheet 1; use with *Overview*

1. A car rental company charges \$29.95 plus 16 cents per mile for each mile driven. The cost in dollars of renting a car, r , is a function of the number of miles, m . What is a function rule relating the cost to the number of miles?
2. Use your rule to write a mathematical statement that indicates you can spend exactly \$75 per day for car rental fees.
3. Use your rule to write a mathematical statement that indicates you cannot spend more than \$75 per day for car rental fees.
4. What does it mean to solve an equation?
5. In function language, how do you solve the inequality $29.95 + 0.16m \leq 75$?