## NAME

Module 18 Solving Radical Equations
Lesson 3 Solving Problems Using Radical Equations

## DATE

## Lesson Objective

- Solve application problems in which a radical equation must be solved.

In the length of a skid mark formula, $s=5.5 \sqrt{0.75 m}$, $s$ represents
$\qquad$ and $m$ represents $\qquad$ _.

Find the length of a skid mark when a car goes into a skid at 60 mph .
$\qquad$

In the distance to the horizon formula, $d=1.17 \sqrt{h}, d$ represents
$\qquad$ and $h$ represents
$\qquad$ -.

A mountain climber sitting on a mountain's summit estimates that the distance to the horizon is 45 miles. How high is the mountain's summit?
$\qquad$

In the speed of sound near Earth's surface formula, $v=20 \sqrt{t+273}$,
$v$ represents $\qquad$ and
$t$ represents $\qquad$ -.
(3.) What is the temperature if sound travels at 400 meters per second?
(4. A 13 -foot ladder leans against a building so that the bottom of the ladder rests on the ground five feet from the building. How high up the side of the building does the ladder reach?


