

PROBLEM-OF-THE-DAY: ALGEBRA 1**WEEK:** September 17 to September 21**DAY:** Monday

RISD Objective: Given a word problem that involves an initial condition and a constant rate of change, students will write a first-degree equation which models the situation and use it to solve the problem.

PROBLEM #20

The Romero's bathtub is draining very slowly. They call Un-Clog-It Plumbing Company to snake out their drain lines. Un-Clog-It Plumbing Company charges \$40 to make a home visit plus \$12 an hour in labor. If the Romero's bill comes to \$70, how many hours of labor were involved with the visit from the plumber? Write an equation which models the information in the problem and solve it to find the answer.

MODEL SOLUTION #20

Let h = hours of labor

$$40 + 12h = 70$$

$$12h = 30$$

$$h = 2\frac{1}{2}$$

Un-Clog-It charged $2\frac{1}{2}$ hours of labor.