

PROBLEM-OF-THE-DAY: ALGEBRA 1

WEEK: September 10 to September 14 **DAY:** Tuesday

RISD Objective: Given a first-degree equation (or word problem which can be modeled by a first-degree equation), students will use the properties of equality to solve the equation.

PROBLEM #16

Harold has one more than five times as many songs on his MP3 player than Sheri. If Harold has 491 songs, how many songs does Sheri have?

MODEL SOLUTION #16

Since we know least about Sheri, we will let the variable stand for the number of her songs:

x = the number of Sheri's songs

Since Harold has one more than five times that many, the expression that represents his amount would be the following:

$5x + 1$ = the number of Harold's songs

The equation would be

$$5x + 1 = 491$$

$$5x = 490$$

$$x = 98.$$

Therefore, Sheri has 98 songs on her MP3 player.