

PROBLEM-OF-THE-DAY: ALGEBRA 1

WEEK: August 27 to August 31

DAY: Tuesday

RISD Objective: Given a set of circumstances, students will calculate the probability of an event.

PROBLEM #7

If Mr. Romero has 14 black markers, 10 blue markers, 8 red markers, and 7 green markers in a drawer and selects one marker at random, what is the probability that marker is red?

MODEL SOLUTION #7

To find probability, you take the number of favorable outcomes and divide by total number of outcomes. We must first find out the total number of markers. When I add the markers together, $14 + 10 + 8 + 7$, I get 39. Since the number of red markers is 8, my probability fraction is $\frac{8}{39}$.