

**PROBLEM-OF-THE-DAY: ALGEBRA 1****WEEK:** November 5 to November 9**DAY:** Wednesday

**RISD Objective:** Given a problem which reflects proportional reasoning, students will write a proportion which models the situation and solve it.

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**PROBLEM #55**

Nora, an artist, is making a bronze sculpture of a ruby-throated hummingbird. A ruby-throated hummingbird is about 3.5 inches long. The scale of the sculpture will be 2.5 : 1. This means all parts of the bronze hummingbird will be 2.5 times larger than the actual hummingbird. How long will the bronze hummingbird be? Show and explain your work.



**MODEL SOLUTION #55**

I will set up a proportion using the given ration:

$$\frac{\text{actual\_bird}}{\text{sculpture\_bird}} = \frac{1}{2.5}$$

$$\frac{3.5}{x} = \frac{1}{2.5}$$

$$1x = (3.5)(2.5) =$$

**8.75 inches**

**The sculpture should be 8.75 inches long.**