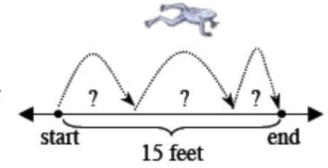# College Preparatory Mathematics Chapter 3 Sample Argumentation Task

3-89. GETTING THERE

Elliott has been watching Dr. Frog take practice jumps all day. The frog keeps landing 15 feet from the starting pad after making three hops. Answer the questions below to consider ways that Dr. Frog can travel 15 feet in three hops.

a. How many combinations of hops can you find to move Dr. Frog 15 feet from where he started? Show your work with pictures, words, numbers, or symbols.

b. Can the frog move 15 feet in three equal hops?

c. If two of the frog's hops are each 10 feet long, how could you describe the third hop so that he still lands 15 feet away from the starting pad? Is there more than one possibility?

This is an ADEQUATE QUALITY argument task. Part a of the problem explicitly asks students to **show their work** which will drive students to provide plenty of evidence. However, it does not ask students to also **explain their reasoning**. If assigned as an argumentation task be sure to explicitly do both to ensure students are writing as well as showing appropriate evidence.

"Elliot has been watching Dr. Frog take practice jumps all day. The frog keeps landing 15 feet from the starting pad after making three hops. How many combinations of hops can move Dr. Frog 15 from where he started? Be sure to explain your thinking, and support your answer with pictures, words, numbers, or symbols."