

**LineUp With Math™ Alignment**  
**Hawaii Content and Performance Standards III: Mathematics**  
**Updated 9/28/05**

**Strand: Numbers and Operations**

**Standard 1. NUMBER SENSE:**

Understand numbers, ways of representing numbers, relationships among numbers, and number systems

**Topic and Benchmark**

*Numbers and Number Systems*  
 MA.PA.1.3 Use ratios and proportions to represent the relationship between two quantities

**LineUp With Math™ Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**Strand: Measurement**

**Standard 4: FLUENCY WITH MEASUREMENT**

Understand attributes, units, and systems of units in measurement; and develop and use techniques, tools, and formulas for measuring

**Topic and Benchmark**

*Measurement Tools and Techniques*  
 MA.PA.4.2 Express rates of change as a ratio of two different measures, where units are included in the ratio, and use the derived rate to solve problems

**LineUp With Math™ Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.  
  
 --Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.

*Measurement Tools and Techniques*  
 MA.PA.4.3 Use ratios and proportions to solve measurement problems

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.