

## Using ratios

### Block 5 Student Activity Sheet

1. To make a particular shade of green, you need to mix blue and yellow paints in the ratio of 1 part blue to 1 part yellow.
  - a. What if you want to exactly fill a 1-gallon (8-pint) container with the green paint? How many pints of yellow and blue should you use?
  
  
  
  
  
  
  
  
  
  
  - b. By what scale factor did you multiply the 1:1 ratio to have enough of the correct shade of green?
  
  
  
  
  
  
  
  
  
  
  - c. A new shade of green is made using a ratio of blue paint to yellow paint of  $\frac{1}{4}:\frac{3}{4}$ . How many pints of blue and yellow paint do you need to make a gallon of this shade of green paint? Explain your reasoning.

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2. A particular shade of purple paint has a ratio of 1 part blue and 2 parts red.
  - a. You have 4 pints of red paint. How many pints of blue paint must you add to make the correct shade of purple?
  
  - b. Brown paint has a ratio of 1 part purple to 1 part yellow. Remember you need blue and red in the ratio of 1:2 to make purple. List two different ratios of blue to red to yellow that will make brown.
  
  - c. Suppose you want to make exactly 1 gallon (8 pints) of brown paint. How many pints of blue, red, and yellow paint do you need to make exactly 1 gallon of the brown paint?