

Name _____

The ratio of the number of boys to the number of girls at school is 4:5.

a. What fraction of the students are boys? Justify your answer.

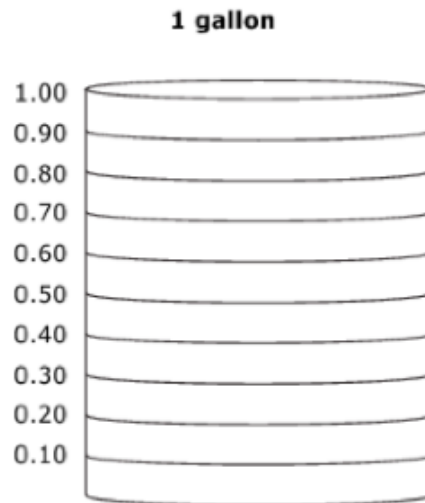
b. If there are 120 boys, how many students are there altogether? Justify your answer using at least two different strategies.

Name _____

Tim makes 80 gallons of paint by mixing 48 gallons of green paint with 32 gallons of blue paint.

What part of every gallon is from green paint?

The model represents 1 gallon of mixed paint. Color in the number of sections to show much of the gallon is from green paint.



Tim needed 50 additional gallons of paint. He made 50 gallons by mixing 28 gallons of green paint with 22 gallons of blue paint.

Will this produce the same color as his 80 gallon mix? Mathematically justify your solution.

If it won't, how many gallons of each color should be used to create 50 gallons of the same color as the 80 gallons? Mathematically justify your solution.

Name _____

Anna and Jason have summer jobs stuffing envelopes for two different companies. Anna earns \$14 for every 400 envelopes she finishes. Jason earns \$9 for every 300 envelopes he finishes.

- a) Who makes more from stuffing the same number of envelopes? Justify your answer, such as using mathematics, words, table, graph, and/or equations.

- b) Write two equations, one that represents Anna's earnings and one that represents Jason's earnings. (As a function of the number of envelopes stuffed)