Grades: 2nd + 3rd

Common Core State Standards

Operations & Algebraic Thinking
CCSS.Math.Content.2.OA.A.1
Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings, words, and equations with a symbol for the unknown number to represent the problem.

Number & Operations in Base Ten
CCSS.Math.Content.2.NBT.B.5
Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
A farmer milks 3 cows, a Guernsey, a Jersey, and a Holstein. Each of these cow breeds produces a different amount of milk. Each morning after the farmer has milked his cows, he has a total of 17 gallons of milk.

The Guernsey cow produces 5 gallons each morning, and the Jersey produces 4 gallons. Solve to answer the following questions and show your work.

a) How many gallons does the farmer’s Holstein cow produce each morning?

b) Each morning, how much milk do the Guernsey and Jersey cows produce together?

c) The farmer decides to sell 8 gallons of milk to the local creamery. How many gallons does he have left?

d) After farmer sells to the creamery, he uses 3 of the remaining gallons to make cheese and 5 gallons to make yogurt. How many gallons does he have left?

e) If the farmer’s daily goal is 20 gallons, how many more gallons does he need?