

Estimating and Checking Capacity

Jefferson County had to drain its 100,000-gallon lake to get rid of some of the algae growing in it. They want to transport the water to a treatment facility. They are deciding how many trucks will be needed for the transport.

- 1 If each truck can hold 500 gallons of water, how many trucks will they need?

_____ trucks

- 2 The treatment facility is very close to the lake. If each truck makes 2 trips from the lake to the facility, how many trucks will be needed?

_____ trucks

- 3 The cost of renting a truck is \$1,000 for the first hour and \$500 for each additional hour. It takes 1 hour for a truck to fill up with water, drive to the facility, empty the water, and drive back to the lake. To spend the least amount of money, should Jefferson County have the same trucks do more than 1 trip? Explain.
