

Name _____

Date _____

Finding a Rate by Dividing Two Quantities

Alejandra drove from Michigan to Colorado to visit her friend. The speed limit on the highway is 70 miles/hour. If Alejandra's combined driving time for the trip was 14 hours, how many miles did Alejandra drive?

1. Enguun earns \$17 per hour tutoring student-athletes at Brooklyn University.
 - a. If Enguun tutored for 12 hours this month, how much money did she earn this month?
 - b. If Enguun tutored for 19.5 hours last month, how much money did she earn last month?

2. The Piney Creek Swim Club is preparing for the opening day of the summer season. The pool holds 22,410 gallons of water, and water is being pumped in at 540 gallons per hour. The swim club has its first practice in 42 hours. Will the pool be full in time? Explain your answer.

Alejandra drove from Michigan to Colorado to visit her friend. The speed limit on the highway is 70 miles/hour. If Alejandra's combined driving time for the trip was 14 hours, how many miles did Alejandra drive?

980 miles

1. Enguun earns \$17 per hour tutoring student-athletes at Brooklyn University.

a. If Enguun tutored for 12 hours this month, how much money did she earn this month?

\$204

b. If Enguun tutored for 19.5 hours last month, how much money did she earn last month?

\$331.50

2. The Piney Creek Swim Club is preparing for the opening day of the summer season. The pool holds 22,410 gallons of water, and water is being pumped in at 540 gallons per hour. The swim club has its first practice in 42 hours. Will the pool be full in time? Explain your answer.

Yes, the pool will be full of water in time for the first practice because 22,680 gallons of water can be pumped in 42 hours at a rate of 540 gallons per hour. Since 22,680 gallons is more water than the pool needs, we know that the swim club will have enough water.