

Name: _____ Orange Purple

Unit Rate Story

Bradley awoke and stepped on the bathroom scale, first thing, as he was accustomed to doing. Down another pound. Great! He had lost 12 pounds since starting his diet and workout program seven weeks earlier. He downed his breakfast and headed off to work, stopping at the gas station to top off his tank. He knew his day would include an out-of-town delivery, and he wasn't sure if he would have time to stop later.

He pulled into the parking lot, walked to his office and clocked in at 8:00 a.m., right on time. He had planned to do some paperwork in the morning, but his boss wanted him to head out right away to make the delivery to Middleton. Bradley loaded 18 laptops and four printers in the back of his vehicle and drove the 70 miles to Middleton in an hour-and-a-half. He delivered the computer equipment and picked up the payment for it. The check included \$6,408 for the laptops and \$1,748 for the printers. He stopped for lunch during the return trip, causing him to take two hours to get back to the office. He was then able to complete his paperwork, read his email and clock out at 4:00 p.m. Bradley enjoyed his job, and made a mental note that in addition to being paid for his travel expenses, his salary for the day would be \$106.

On the way home, Bradley stopped and filled his vehicle with gas for the second time that day. He had travelled 183 miles since filling up earlier in the day, and the 7.5 gallons he purchased cost \$24.45. He picked up a half dozen tacos for \$6.18 and carried them up to his apartment. It was time to study for his college class.

Find the unit rate for each of the events in Bradley's day:

At what rate has he been losing weight? _____ lbs. / wk (pounds per week)

What was his average speed on the way to Middleton? _____ mph (miles per hour)

What was his average speed on the way back from Middleton? _____ mph (miles per hour)

What was his hourly salary for the day? \$_____._____ per hour

How many miles per gallon did his vehicle get that day? _____ mi / gal

Find the unit price for each of the following:

The laptop computers: \$_____._____ per laptop

The printers: \$_____._____ per printer

The gasoline: \$_____._____ per gallon

The tacos: \$_____._____ per taco