

Proportional Relationships

Directions: Solve each problem. Show your work in the space provided.

1.) The number of hours worked is directly proportional to the amount of money earned. If Jack earns \$8 for every hour worked, how much money will he earn if he works for 10 hours?

2.) A car travels 200 miles in 4 hours. Assuming a constant speed, how many miles will it travel in 6 hours?

3.) A car rental agency charges \$25 per day to rent a car. How much would it cost to rent a car for 3 days?

4.) A student earns \$12 per hour tutoring. How much will the student earn in 8 hours of tutoring?

5.) It takes 3 hours to mow a lawn that is 6,000 square feet in size. Assuming a constant rate, how long would it take to mow a lawn that is 9,000 square feet?

6.) A recipe calls for 2 cups of flour to make 24 cookies. Assuming a constant ratio, how many cups of flour are needed to make 36 cookies?

7.) A bicycle travels 15 miles in 1.5 hours. Assuming a constant speed, how far will it travel in 3 hours?

8.) A faucet fills a bucket with 8 gallons of water in 2 minutes. Assuming a constant flow rate, how many gallons of water will the faucet fill in 5 minutes?

