

Proportions and Percents

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

- 1.) If it takes 4 workers 6 hours to build a fence, how many workers are needed to build the same fence in 3 hours?

- 2.) If 8 packs of juice cost \$12, how much do 12 packs cost?

- 3.) A car travels at a constant speed. If the distance traveled is inversely proportional to the time taken, and the car travels 300 miles in 5 hours, how long will it take to travel 150 miles?

- 4.) The time taken to complete a task is inversely proportional to the number of workers. If 6 workers can complete the task in 4 hours, how long will it take for 12 workers to complete the same task?

- 5.) A car travels 300 miles in 5 hours at a constant speed. If the car travels at the same speed, how far will it travel in 8 hours?

- 6.) The number of workers needed to complete a job is inversely proportional to the time taken. If 6 workers can finish a job in 4 hours, how long will it take for 9 workers to finish the same job?

- 7.) The cost of renting a car is directly proportional to the number of days. If it costs \$30 to rent a car for 2 days, how much will it cost to rent the car for 5 days?

- 8.) The time taken to complete a trip is inversely proportional to the average speed. If a trip takes 6 hours at an average speed of 60 mph, what is the average speed if the trip is completed in 4 hours?

