



Concept\_CW\_G8\_Proportional Relationship Between Time and Work

Trisha can make 5 pairs of earrings in 1 week. Assuming she works at this constant rate, how many complete pairs of earrings can she make in 10 days?

Stefan writes thirty Expil problems per day. If he writes problems twenty days per month, how many problems will he have written after five months?

Mon Jackey is stocking up on Coca Cola so he goes to Malwart to buy a bundle of packages. Each package contains 15 cans of Cola. Given Mon drinks two and a half

cans per day, how many days would 50 packages of Cola last him?

In Skyrim, the in-game clock moves ten times faster than an actual clock. That way multiple days can pass as you play.

If you play for two hours, how much time passed in the game?

A milk packaging company is close to being shut down because of cockroaches in the milk cartons. If the health inspector finds 5 roaches in cartons he's shutting the place down. The health inspector knows that, on average, there were 0.0012 cockroaches per carton. He notices

they just produced 5000 cartons for the day. How many cockroaches will he be expecting to find?

If your mom has 3 sisters and 4 brothers, and your dad has 2 sisters and 4 brothers, what is your ratio of uncles to aunts?

Laura Thunderarms can serve a tennis ball at 163 mph, well above average. 250,000 people would buy tickets just to see her amazing serve. But 163 wasn't enough for all Thunderarms. She trained more and increased her serve. Now, 489,000 people buy tickets to see her serve. Assuming serve speed is proportional to how many people buy tickets, how fast is she serving the ball now?

A moderate dose of caffeine is about 250 milligrams and this will keep you awake for about 5 hours. About one hundred milligrams of caffeine is in 1 cup of coffee. How many cups would you need to drink in order to stay up for a whole day?

The price of movie tickets is always increasing. Suppose that movie tickets sell for \$15 each and that a single movie is watched by 1% of the population of a country. Approximately how much more money is earned through ticket sales if the country is the United States, which has a population of about 320 million, compared to if the country has 1 million people?

Scott Rogowsky hosts 8 HQ trivia games a week. How many trivia games does Scott host in one year?