

Time and Velocity

1. How many nanoseconds are in one minute? _____
2. How many seconds are in 365 days? _____
3. If your car is going 90 km/hr, how many meters per second is it going? _____
4. If you can throw a baseball 160 km/hr and the pitcher's mound is 18 meters from home plate, how many seconds will it take for the pitch to reach home plate?

5. Your car accelerates 2.5 m/s^2 (for every second it's accelerating, it's speed increases by 2.5 m/s). How many seconds will it take to reach the speed limit (90 km/hr)?
