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How do you calculate rpm from mph

The following simple calculation determines the RPM of the engine in an MPH, or MPH data in a RPM data. Pneumatic diameter, final gear ratio (differential) and transmission ratio (usually 1.0 for high gear, or something like 0.7 for overdrive). Simple calculation, but saves one from the breakup of the calculator. Bruce Bowling
bbowling@earthlink.net Bowling Superior The reset values displayed are a 1994 FXDL Harley-Davidson Dyna Low Rider. All Harley Big Twin models have similar. The rear wheel sprocket can vary, with belt drive models using a pinion of 61, 65 or 70 teeth. Below is a table of typical values for the Harley-Davidson motorcycle model late. This calculator is only for the entertainment value. Don't be used instead of real tests. Use zero for the Slip Converter if Manual Transmission Using Arduino Project Guidance.Ok, I have a motor running with a magnet, a sensor collecting the magnet. I have the correct RPM numbers on my screen, everything seems to work well. My problem: how can I get to convert my RPM to MPH, I know that my spinning wheel is 5 inches in diameter. What code would math do for me??? is this possible, thanks to all who try to help, its appreciated matte The circumference is pi*diameter. Each revolution is 1 circumference. For your 5-inch wheel, which is a factor of 15.71 or down there. If you can live with error of 2%, you can only multiply by 16 and keep things whole. First, thank you Keith for answering. I'm with you 100% on the equation for theconversion of speed. It could give me an example of how sketching/coding equation, this is my main problem. Thanks, I gave you a penny an hour. 1 mile = 30,960 inches so you have: pi * d(inch) * 1 mile/30960 inches. Since it is much less than one, we will go ahead and use the floating point. floating mph = rpm * 3.14159 * 5.0 / 30960.0; or 5.07E-4 mph for each rpm If your wheel is turning really fast and mph means something, you can also use the formula: not signed mph_ten_thousandths = rpm * 5; then 2000 RPM will be 1 mph. I don't know what the problem is. KeithRB: Oops, I gave you thumbs an hour. 1 mile = 30,960 inches so you have: pi * d(inch) * 1 mile/30960 inches. That's not fair. One mile is 5280 feet. One foot is 12 inches. Therefore, a mile is 5280 * 12 = 63360 inches. You're right. Somehow I typed 2580 in the calculator. (My new first shows me the story so my mistake was kept for everyone to see.) Thank you Keith for not yelling at me. I'm helping my boss with this project. He as written the sketch provided, I am at work only trying to help him between the machining parts. He's more experimental than me, so I'll show him what you wrote to me. We know that the necessary mathematics, he just wanted the screen to show it and that it's the part of the sketch that didn't work. When I try to add the equation in the sketch it would clear and not verify. So I thought going to the forum would help me. You helped me, and I really did.I appreciate your time to help. I have to be new to this forum thing, too. Him. Take care! When I try to add the equation in the sketch it would clear and not verify. When you're in that situation, come here but post the code you don't check and the error message you received. It is much easier for us to help you get that it works and fixed than to try to work through a vague question on how you do x. const floating TireDiametro = 5.0; == sync, corrected by elderman == inch/min/min/h == inch*ora/min^2. Units aren't coming out for me, which means math is usually off. Delta_G: Are you 100% sure about that math? inch/min/min/h == inch*ora/min^2. Units aren't coming out for me, which means math is usually off. Oops! You're right. I corrected the code to convert from thumb/min to thumb/hour and then to mile/hour. Gioveimages/Polka Dot/Getty Images A vehicle transfer power from the engine through transmission andThe gears of these components involve a wheel speed expressed in revolutions per minute (rpm). From the rpm wheel speed, the tyre size determines the vehicle's final road speed. Calculations can be applied to any vehicle, from a bicycle to a semi-truck. Calculate the circumference of the standing wheel from the diameter. The circumference formula is the diameter times pi. Pi is a constant mathematics and is from 3,1416 to four places. For example, if the wheel is 30 inches in diameter the girth would be 94,248 inches. Divide from 12 to get 7.854 feet. Calculate the revolutions of the wheel by mile by dividing 5,280 from the circumference of the standing tires. The example tire will make 672.3 revolutions per mile. Calculate the speed per minute by dividing the wheel speed from the tyre revolutions per mile. For example, if the wheel speed is 300 rpm, the example tire moves at 0.46 miles per minute. Multiply miles per minute speed times 60 to convert speed to miles per hour (mph). Our example tire with a diameter of 30 inches turning at 300 rpm will have a road speed of 26.8 mph. how to calculate mph from rpm. how to figure mph with rpm

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