

Problem-Solving Decision: Reasonable Answers

Use the questions to help you solve.

- The endurance race consists of swimming, biking, and running. Dan ran the 26.2-mile course in 3 hours 16 minutes. He says his rate was $7\frac{1}{2}$ minutes per yard. Is that reasonable? Use the units in the problem to decide.



What facts are given that can help you?

What units will you need to work with?



How many yards are in a mile? (Hint: 1 mile = 5,280 feet)



How would you divide units?

Was Dan's statement reasonable?



Does your answer make sense?

Solve.

- Dan cycled 112 miles in 3.7 hours. Marcy cycled at an average speed of 45 kilometers per hour. Marcy said she cycled faster than Dan. Is her statement reasonable? Use the units in the problem to decide. (Hint: 1 mi \approx 1.6 km)
