

Dimensional Analysis Practice

Use dimensional analysis to convert each rate. Show all of your work and draw a line through the units that cancel. Round your answer to the nearest hundredth.

1. Convert 13 feet per second to miles per hour.
2. Convert 40 miles per hour to feet per second.
3. Convert 150 yards per minute to feet per day.
4. Convert 3.82 meters per second to kilometer per hour
5. Convert 15 miles per hour to inches per second.
6. Flacons can dive at speeds of up to 318 feet per second. Convert this speed to miles per hour.
7. A cyclist travels 56 miles in 4 hours. What is the cyclist's speed in feet per minute?