

Dimensional Analysis Worksheet II

Directions: Use the parentheses method of dimensional analysis to solve these problems. Remember, units on all number!

1. Kerrin is a killer volleyball player. Kerrin has 9 kills per game and each game is 30 minutes in length. How many kills per second does she have?



2. Matt always brags about how far he can throw the ball. One day he decided to impress some of the cheerleaders and threw a football a distance of 3.4×10^{-3} nautical miles. How far in yards did Matt throw the ball?



3. Aaron is very determined to grow his hair long enough so that nobody can ever tell if he is sleeping. If Aaron's hair grows an average of 3 mm per hour, how many minutes would it take for Aaron to have hair that is a total length of 4ft?



4. Emily did such a wonderful job during driver education that she was promoted to head "grocery getter" for her household. If Emily runs 4 errands per day and each errand takes a total of 20 minutes, how many hours does Emily spend running errands in one week?



5. Allison makes all kinds of weird sounds. If during a volleyball practice she runs at 3 m/s while making these sounds, calculate her speed in miles per hour.

