

Name: _____



Dimensional Analysis Practice:
Guinness Book of World Records

Directions: Answer on a separate sheet of paper. In order to receive full credit, show all of your work **INCLUDING** your road map, conversion factors, and the table! You are responsible for seeking extra homework help if you need it! I am here before and after school. Not having your homework because you did not understand is not a valid reason for failing to turn in an assignment!

1. The distance from the thumb to the little finger on Erbie Terbium's hand is 9 inches. If **1 inch = 2.54 centimeters**, convert this to centimeters. How many millimeters wide is his hand?
2. Jeanne Calment currently holds the record for the oldest person ever to live. She lived to 122 years old. For how many seconds was she alive?
3. The highest pizza toss was 6.52 meters into the air.
 - a) How many feet into the air was the pizza tossed?
 - b) How many centimeters?
4. Dr. Ron Hill holds the record for most miles run in a lifetime: 145,511 miles! How many kilometers is this if **1 mile = 1600 meters**?
5. The greatest weight balanced on teeth is 63.5 kg and was achieved by Frank Simon (USA) who balanced a refrigerator for 10 seconds.
 - a) How many grams did the refrigerator weight?
 - b) Decigrams?
 - c) Pounds (**1 kg = 2.2 lbs**)?
6. The fastest speeding ticket ever given was to a driver going 242 mph in a 75 mph zone. How fast was the car driving in km/hr? How fast SHOULD he have been driving, in km/hr?
7. Wearing a 110-lb deep sea diving suit, Lloyd Scott set the record for the slowest marathon time: 6.19 days!
 - a) For how many minutes was he running?
 - b) How heavy is his suit in kg if 1 kg = 2.2 lbs.

