

Dimensional Analysis Worksheet 1

Name: _____

Hour: _____

Show all work for credit. Remember, no Units... no Credit!

1. A particular mountain peak is 18,000 feet above sea level. Mountain climbers are strongly recommended to wear oxygen masks at atmospheres 3 miles above sea-level. Should mountain climbers wear oxygen masks to climb this mountain. 5,280 feet = 1 mile.

2. If 12 grams of sugar is the most that dissolves in 40 ml of H₂O (water) how much sugar can dissolve in 140 ml of water?

3. A garage stall is 18 feet long. If a vehicle is 287 inches long, will it fit into the garage stall? 1 foot = 12 inches.

4. If 450 pennies fits into a 2 quart jar, how many 1 quart jars would you need to fit 3500 pennies?