

Quiz & Worksheet - Converting Units with Dimensional Analysis

1. Which of the following is a conversion factor?

- ☐ 55-60 hours
- ☐ 60 seconds/1 minute
- ☐ 1,000 m per
- ☐ 30 lbs.

2. Use dimensional analysis to convert 4 days into seconds.

- ☐ 96 seconds
- ☐ 20,736,000 seconds
- ☐ 14,400 seconds
- ☐ 345,600 seconds
- ☐ 5,760 seconds

3. The density of mercury is 13.6 g/mL. What is its density in lbs/L? (Hint: 1 lb = 0.454 kg)

- ☐ 30.0 lbs/L
- ☐ 6.17 lbs/L
- ☐ 30,000 lbs/L
- ☐ 6,170 lbs/L

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Kuta Converting Measurements Using Dimensional Analysis Worksheets

Percy Williams Bridgman



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Dimensional Analysis Percy Williams Bridgman,2013-09 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1922 edition Excerpt between the number of fundamental units and the number of variables which determines the number of arguments of the unknown function is the same in either case because when the number of units is augmented by one by including the force the number of variables is also augmented by one by including the dimensional constant and the difference remains constant If however the problem were such that the experimental relation between force mass and acceleration is not involved in the equations of motion of the system then the ordinary mechanical units would be inappropriate because we would obtain less information when using them For we could in this case use four fundamental units without introducing a corresponding dimensional constant into the list of variables so that the difference between the number of variables and the units would be less by one when using four than when using three fundamental units and the arguments of the function would be fewer in number which is desirable We shall meet an example illustrating this point later

REFERENCES 1 Fourier *Theorie de Chaleur* 160 As dealing with the general question of the proper number of fundamental units may be mentioned E Buckingham *Nat* 96 208 and 396 1915

CHAPTER VI EXAMPLES ILLUSTRATIVE OF DIMENSIONAL ANALYSIS Let us in the first place recapitulate the results of the preceding chapter Before undertaking a dimensional analysis we are to imagine ourselves as making an analysis to the extent of deciding the nature of the problem and enumerating the physical variables which would enter the equations of motion in the general sense and also the dimensional coefficients required in writing down the equations of motion The dimensions of all these variables are

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