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the joist is a 3 force body acted upon by the rope, its weight, and the reaction at . A.

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### Statics 7-1

Engineering Mechanics - Statics Chapter 1 Problem 1-1

Represent each of the following combinations of units in the correct SI form using an appropriate prefix: (a) m/ms (b)  $\mu\text{km}$  (c) ks/mg (d)  $\text{km} \cdot \mu\text{N}$  Units Used:  $\mu\text{N} = 10^{-6} \text{ N}$   $\mu\text{km} = 10^{-6} \text{ km}$   $9 \text{ Gs} = 10^9 \text{ s}$   $3 \text{ ks} = 10^3 \text{ s}$   $\text{mN} = 10^{-3} \text{ N}$   $3 \text{ ms} = 10^{-3} \text{ s}$  Solution: (a)  $\text{m} / 3 \text{ m} = 1 \times 10^{-3}$  (b)  $\mu\text{km} = 1 \times 10^{-6} \text{ km} = 1 \times 10^{-3} \text{ m}$

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$\mu\text{km} = 1 \text{ mm}$  ( c)  $\text{ks} = 1 \times 10^3 \text{ s}$   $\text{mg} = 1 \times 10^{-3} \text{ kg}$   $\text{Gs} = 1 \times 10^9 \text{ s}$  ( d)  $-3 \text{ km} \cdot \mu\text{N} = 1 \times 10^{-3} \text{ m} \cdot 10^{-6} \text{ N} = 1 \text{ mm} \cdot \text{N}$  1 © 2007 R.

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members which "carry no load." As far as completing statics goes, we can ignore the issue. Often they are included to carry loads which move to another location, as with cars crossing a bridge, and which require another whole set of solutions. They are also used a bracing to prevent buckling, a topic you will study in "strength of materials."

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Engineering Mechanics 1 Solutions to Supplementary Problems

## **Engineering Mechanics 1 Solutions to Supplementary Problems**

As with any branch of physics, solving statics problems requires

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you to remember all sorts of calculations, diagrams, and formulas. The key to statics success, then, is keeping your shear and moment diagrams straight from your free-body diagrams and knowing the differences among the calculations for moments, centroids, vectors, and pressures.

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Engineering Mechanics - Statics Chapter 1 Problem 1-11 If an object has mass  $m$ , determine its mass in kilograms. Given:  $m = 40$  slug Solution:  $m = 584$  kg Problem 1-12 The specific weight (wt./vol.) of brass is  $\rho$ . Determine its density (mass/vol.) in SI units. Use an appropriate prefix. Units Used:  $\text{Mg } 10^3 = \text{kg}$  Given:  $\rho = 520 \text{ lb ft}^{-3}$  = Solution ...

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In this practice problem, the vectors are rigged so that the alternate solution is easier than the default solution. The graphical method for addition of vectors requires placing them head to tail. The sum would be the resultant vector connecting the tail of the first vector to the head of the last.

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