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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:  $m$



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=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: Mg  
 $10^3 = \text{kg}$  Given:  $\rho = 520$   
 $\text{lb ft}^{-3} = \text{Solution ...}$

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Chapter 1**

CE 221 Engineering  
Mechanics I - Statics  
Problem Set - 8 Using  
the more practical

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method presented in the last videos (lec-27, lec-28), draw the shear force and bending moment diagrams of the following beams and loading shown.

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Vector Mechanics for Engineers: Statics Edition. 4 - 17. Sample Problem 4.6. A man raises a 10 kg joist, of length 4 m, by pulling on a rope. Find the tension in the rope and the reaction at A.

SOLUTION: • Create a free-body diagram of the joist. Note that the joist is a 3 force body acted upon by the rope, its weight, and

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the reaction at . A.

**CHAPTER VECTOR  
MECHANICS FOR  
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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) km·

$\mu\text{N}$  Units Used:  $\mu\text{N} = 10$

$-6 \mu\text{km} = 10 \text{ N} -6 \text{ km}$

$9 \text{ Gs} = 10 \text{ s}^3 \text{ ks} = 10 \text{ s}$

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$10^{-3} \text{ ms} = 10^{-6} \text{ s}$   
Solution: (a)  $3 \text{ m} = 3 \times 10^3 \text{ mm}$   
 $1 \text{ km} = 10^3 \text{ m}$  (b)  $1 \text{ } \mu\text{m} = 10^{-6} \text{ m}$   
 $1 \text{ mm} = 10^{-3} \text{ m}$  (c)  $9 \text{ ks} = 9 \times 10^3 \text{ s}$   
 $1 \text{ mg} = 10^{-3} \text{ kg}$  (d)  $1 \text{ km} = 10^3 \text{ m}$   
 $1 \text{ } \mu\text{N} = 10^{-6} \text{ N}$   
 $1 \text{ mm} = 10^{-3} \text{ m}$   
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