## Center of gravity worksheet answers

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1. Determine the coordinate of the object's center of gravity, as shown in the figure below. Solution: Divide the object into three parts. Part area 1 (A1) = (2)(6) = 12 cm2 The center point is on the x-axis (x2) = 2 + (1/2)(2) = 2 + 1 = 3 cm Part area 3 (A3) = (2)(6) = 12 The center opint is on the x-axis (x3) = 2 + 4 + (1/2)(2) = 2 + 1 = 3 cm Part area 3 (A3) = (2)(6) = 12 The center of gravity coordinate of the object's center of gravity on the y axis (x3) = 2 + 4 + (1/2)(2) = 2 + 1 = 3 cm Part area 3 (A3) = (2)(6) = 12 The center of gravity coordinate of the object scenter of gravity on the x-axis (x2) = 2 + (1/2)(4) = 2 + 2 = 4 cm The center opint is on the x-axis (x3) = (2)(6) = 12 The center of gravity coordinate of the object is on the x-axis (x3) = (2)(3) = 12 The center of gravity coordinate of the object is on the x-axis (x3) = (2)(6) = 12 The center of gravity coordinate of the object scenter of gravity and the x-axis (x3) = (2)(3) = 12 The center of gravity and the x-axis (x3) = (2)(3) = (2)

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na	and fuel capacity. The distances in Table 1 should be measured from a reference line that begins at the nose (front) of the 747. Use the BACK key to return to this page. Problem 1 will guide you in the calculation to find the mass of the fuel. All problems are expressed in metric units. What is the fuel capacity of the 747? Fuel capacity = Fuel volume =	

\_ (Tip: Remember, F = mag = W. Acceleration due to gravity, ag, is 9.8 m/s2.) Weight (kg)

\_\_\_\_\_CLASS\_\_\_\_\_\_ \_ Estimate values for data that you cannot find in a reasonable period of time. You should be able to find the length of the plane (for the requested reference distances), the engine

Fuel mass = Weight (N) load w1 engine w2 wings w3 fuselage w4 fuel w5 vertical tail w6 horizontal tail w7 Table 2 : Aircraft component weights What n is equal? [Tip: The n number is the number of quantities being added.] n =

Using your answers to problems 6 and 7, calculate the center of gravity. After a long flight, the amount of fuel left in the tanks is 20% of the initial amount. What is the mass and weight of the fuel left? Record your answers in Table 3. Mass weight (kg) Weight (N) Remaining fuel table 3 : Rema

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