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5/T) 1.	Two cell phone towers are located 4.5 miles apart on the ground in your hometown, oriented in an east-west direction with one another. Using your local topographic map, you measure 3.4 cm map distance between the two cell phone towers. Calculate the fractional ratio scale of the map. Draw a sketch map with north arrow showing the cell tower relationships and distances. For your calculation, show all of your math work and unit algebra / conversions.
N	3.4cm = (4.5 mi) (5280 ft) (m) -
	$\frac{4.5m}{1}$ $\frac{3.4cm}{3.4cm} = \frac{724,390,2cm}{3.4cm} = 213,056$
(00)2.	The average density of planet Earth is 5.5 g/cm ³ . (Given that the average radius of the Earth is 3,959 mi,
Dame	explain all variables. Show all of your math work and unit algebra / conversions. List the equation for density and explain all variables. Show all of your math work and unit algebra / conversions. Solve in the planet in both kilograms and metric tons. List the equation for density and explain all variables. Show all of your math work and unit algebra / conversions.
Vozun	
Sphe D=	$\frac{4}{3} \pi r^{3} = \frac{4}{11} \pi r$
5pm)	The average distance from the earth to the sun is 93 million miles. Given the speed of light is equal to \$ x 108 m/sec, calculate how long it takes electromagnetic radiation to travel from the sun to the Earth; answer in both minutes and hours. List the equation for velocity and explain all variables. Show all of your math work and unit algebra / conversions.
t	V=d t = (93 ×106 mi) 5280 x / 1m = 499 seef [min] = (8.3 mi)
nome.	X = d 3 x10 8 m/sec 8.3 inm / 1hr, = 0.14 hr
4.	In astronomy, the distance from the Earth to the Sun is equal to 1 "astronomical unit" (AU), a measure of distance that astronomers use to characterize the dimensions of our solar system. Given that the average distance from the Earth to the Sun is 93 x 10 ⁶ miles in the English measurement system, how many kilometers distant is a mystery planet that is located 9.6 AU from the sun? Show all of your math work and unit algebra / conversions.
	9.6 AU 93×106mi 5280/ 1m 1 Fm = [45×100 Fm]
	Correction Answer = 1.4 x 10 ⁹ km

Bonus Internet Search Trivia Question: Based on the distance from the sun, which mystery planet is it?

SATURN IS ~ 9.6 Au From
SUN