

Ms. Glynn
8th Grade Science

Name: _____
Date: _____

- 1) Calculate the height of a 5 foot man in cm and in mm (1 inch = 2.54 cm)

- 2) Calculate the capacity in liters of a 10 gallon aquarium (1 gallon = 3.78 L)

- 3) How many seconds are there in 3 hours?

- 4) How meters are there in 5 miles? (1 mile = 1.61 km)

- 5) How many Newtons are there in 150 lbs? (1 lb = 4.4482 N)

- 6) If your driving at 50 mi/hr for 10 hours, how far have you traveled?

- 7) If your speed has changed from 50 mi/hr to 70 mi/hr over a period of 10min, what is your acceleration?

8) If it takes a ball 7 min to drop in the moon, calculate the distance that it fell knowing that the acceleration on the moon due to gravity is $1.7 \frac{m}{s^2}$

(Recall that for an object falling from rest, we use the equation $d = \frac{1}{2}at^2$)

9) One day on Mars is the same as 24 hours and 37 minutes on Earth.

a) How many "Earth Seconds" are there on Mars?

b) How many "Earth Years" are there on Mars?