Name	Hour	
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Practice TEST for Circular Motion/Gravity/Pendulums

1.	A pilot (72 kg) is flying a small plane in a circular path with a radius of 50 m. If it takes him 15.7 sector make 1 circle, calculate the centripetal force acting on him.
2.	Calculate the force of attraction between the Earth and the moon if the distance from center to center is 3.84×10^8 m.
3.	How far away from the center of the earth (r) would you (100 kg) need to go in order for the acceleration due to gravity to be equal to 2.9 m/s ² ? What would your weight be there? How many g's would you feel?
4.	A satellite for AT&T is orbiting at 450,000 m above the surface of the earth. Calculate how fast it i traveling in mph .