

Name: _____ Hour: _____

CIRCULAR MOTION



Earth mass = 6×10^{24} Kg



Moon mass = 7.4×10^{22} Kg

distance Earth-Moon = 3.9×10^8 m

1. The moon revolves around Earth in a counter-clockwise direction. Draw and label a vector arrow on the diagram above showing the velocity that the Moon has.
2. What is the name of the “type of velocity” the Moon has? _____
3. The moon revolves around the Earth once every 27.3 days. Calculate the Velocity of the moon in m/s.
4. Calculate the acceleration of the moon.
5. Draw and label a vector arrow on the diagram above showing the F_c on the Moon.
6. Use the space below to calculate the amount of Force pulling on the Moon.
7. Draw a dotted line to show the Moon’s actual path.