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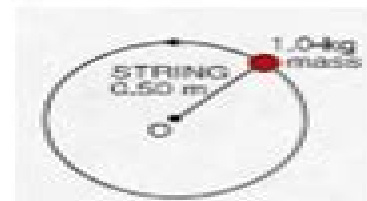
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CHAPTER 5
CIRCULAR MOTION & GRAVITATION
CONCEPTS QUESTIONS

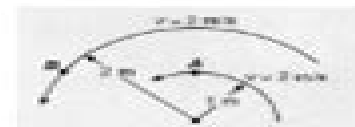
1. If the mass of the ball is decreased, the centripetal force required to keep it moving in the same circle at the same speed _____
2. A spaceship is traveling to the moon. It is _____ the pull of Earth's gravity.

Concepts 3 – 5 refer to the following: The diagram on the right shows an object with a mass of 1.0 kg attached to a string 0.50 m long. The object is moving at a constant speed of 5.0 m/s in a horizontal circular path with center at point O.



3. While the object is undergoing uniform circular motion, its acceleration is directed toward the _____
4. If the string is lengthened while the speed of the object remains constant, the _____
5. If the string is cut when the object is at position shown, the path the object will travel from this position will be a _____
6. The acceleration of gravity on the moon is one-sixth what it is on Earth. An object of mass 72 kg is taken to the moon. Its mass there is _____
7. The shape of the path of the Earth about the Sun is an _____ with the Sun at one focus.

8. Two masses, A and B, move in circular paths as shown to the right. The centripetal acceleration of mass A, compared to that of mass B, is _____



9. Two objects attract each other gravitationally. If the distance between their centers doubles, the gravitational force is cut a _____
10. As the distance of a satellite from Earth's surface increases, the time the satellite takes to make one revolution around the Earth _____
11. If the velocity of the ball is doubled, the centripetal acceleration is _____

Circular Motion And Gravitation Chapter Test

Y Pai



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