

Assessment

Chapter Test B**Teacher Notes and Answers**
Circular Motion and Gravitation**CHAPTER TEST B (ANSWERS)**

1. b
2. d
3. d

Given

$$F_c = 18.0 \text{ N}$$

$$v_c = 18.0 \text{ cm/s}$$

$$r_c = 3.8 \text{ cm}$$

$$G = 6.673 \times 10^{-11} \text{ N} \cdot \text{m}^2/\text{kg}^2$$

Solution

$$\frac{F_c}{F_g} = \frac{(18.0 \text{ cm/s})}{(18.0 \text{ cm/s})} = \frac{1}{2}$$

$$F_g = \frac{1}{2} F_c$$

$$F_c = G \frac{m_1 m_2}{r^2} = 90.0 \text{ N}$$

$$F_g = \frac{G m_1 m_2}{(2r)^2} = G \frac{m_1 m_2}{4r^2} = \left[\frac{1}{2} F_c \right]$$

$$G \frac{m_1 m_2}{4r^2} = \frac{1}{2} \left[G \frac{m_1 m_2}{r^2} \right] = 4F_c$$

$$F_c = 14(90.0 \text{ N}) = 48.0 \text{ N}$$

4. c

Given

$$v_1 = 40$$

Solution

$$v_1 = \sqrt{G \frac{M}{r_1}} \quad v_2 = \sqrt{G \frac{M}{4r_1}}$$

$$\frac{v_1}{v_2} = \frac{\sqrt{G \frac{M}{r_1}}}{\sqrt{G \frac{M}{4r_1}}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$v_2 = \frac{1}{2} v_1, \text{ i.e., speed would decrease by a factor of 2}$$

5. a

6. c

Given

$$v = 40.0 \text{ N} = 40$$

$$F = 133 \text{ N}$$

Solution

$$v = Fd$$

$$d = \frac{v}{F} = \frac{40.0 \text{ N} \cdot \text{m}}{133 \text{ N}} = 3.01 \times 10^{-2} \text{ m} \\ = 30.1 \text{ mm}$$

7. b

Given

$$F_{\text{net}} = 4.0 \times 10^2 \text{ N}$$

$$F_{\text{grav}} = 6.4 \times 10^2 \text{ N}$$

Solution

$$\Delta a = \frac{F_{\text{net}}}{F_{\text{grav}}} = \frac{6.4 \times 10^2 \text{ N}}{4.0 \times 10^2 \text{ N}} = 1.6$$

8. The horse farther from the center has a greater tangential speed. Although both horses complete one circle in the same time period, the one farther from the center covers a greater distance during that time period.

9. Centripetal acceleration:
- $a_c = \frac{v^2}{r}$

Newton's second law: $F = ma$

$$F_c = ma_c = \frac{mv^2}{r}$$

$$F_c = \frac{mv^2}{r}$$

10. 1.0 N

11. Kepler's second law of planetary motion (and, implicitly, Kepler's first law)

Circular Motion And Gravitation Chapter Test B

Greg Jacobs

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Circular Motion And Gravitation Chapter Test B:

Circular Motion And Gravitation Chapter Test B Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Circular Motion And Gravitation Chapter Test B**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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