

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

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

$$v_c = \frac{1}{2} v_0$$

$$F_c = G \frac{m_1 m_2}{r^2} = 80.8 \text{ N}$$

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

$$G \frac{m_1 m_2}{\frac{1}{4} r^2} = 4 \frac{G m_1 m_2}{r^2} = 4F_c$$

$$F_c = 4(80.8 \text{ N}) = 323 \text{ N}$$

4. c

Given

$$v_0 = 40$$

Solution

$$v_c = \sqrt{G \frac{M}{r}} \quad v_{c'} = \sqrt{G \frac{M}{4r}}$$

$$\frac{v_c}{v_{c'}} = \frac{\sqrt{G \frac{M}{r}}}{\sqrt{G \frac{M}{4r}}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$v_{c'} = \frac{1}{2} v_c, \text{ i.e., speed would decrease by a factor of 2}$$

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

Brendan G. Carr



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