

Answer Key

Universal Gravitation

1. Suppose that two objects attract each other with a gravitational force of 16 units. If the distance between the two objects is doubled, what is the new force of attraction between the two objects?

$$F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad G, m_1, \text{ \& } m_2 \text{ is constant, so } = 1$$

$$16 = \frac{1}{(2)^2} = \frac{1}{4} = \boxed{4 \text{ units}}$$

2. Suppose that two objects attract each other with a gravitational force of 16 units. If the distance between the two objects is reduced in half, then what is the new force of attraction between the two objects?

$$F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad 16 = \left(\frac{1}{2}\right)^2 = \frac{1}{4} = 4 \times \boxed{64 \text{ units}}$$

3. Suppose that two objects attract each other with a gravitational force of 16 units. If the mass of both objects was doubled, and if the distance between the objects remained the same, then what would be the new force of attraction between the two objects?

$$F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad 16 = \frac{(2)m_1 \times (2)m_2}{d^2} = 4 \times \boxed{64 \text{ units}}$$

4. Suppose that two objects attract each other with a gravitational force of 16 units. If the mass of both objects was doubled, and if the distance between the objects was doubled, then what would be the new force of attraction between the two objects?

$$F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad 16 = \frac{(2)(2)m_1 \times (2)m_2}{(2)^2 d^2} = \frac{4}{4} = \boxed{16 \text{ units}}$$

5. Suppose that two objects attract each other with a gravitational force of 16 units. If the mass of both objects was tripled, and if the distance between the objects was doubled, then what would be the new force of attraction between the two objects?

6. Suppose that two objects attract each other with a gravitational force of 16 units. If the mass of object 1 was doubled, and if the distance between the objects was tripled, then what would be the new force of attraction between the two objects?

$$+5. \quad F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad 16 = \frac{(2) \times (2)m_1 \times (3)m_2}{(3)^2 d^2} = \frac{4}{9} = 2.25 \times \boxed{36 \text{ units}}$$

$$+6. \quad F_{\text{grav}} = G \frac{m_1 \times m_2}{d^2}; \quad 16 = \frac{(2) \times (2)m_1 \times m_2}{(3)^2 d^2} = \frac{4}{9} = 2.25 \times \boxed{36 \text{ units}}$$

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L Darling-Hammond



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