

## Unit I - Worksheet 3: Coulomb's Law Key

1. Given the mathematical representation of Coulomb's Law,  $F = k \frac{q_1 q_2}{r^2}$ , where  $k = 9.0 \times 10^9 \text{ Nm}^2/\text{C}^2$ , describe in words the relationship among electric force, charge, and distance.

*The electric force is proportional to the product of the charges and is inversely proportional to the square of the distance between the charges.*

2. By how much does the electric force between a pair of charged bodies diminish when their separation is doubled? tripled?

$$F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(2r)^2} = \frac{k}{4r^2} \quad F_2 = \frac{1}{4}F_1 \qquad F_1 = \frac{k}{r^2} \quad F_2 = \frac{k}{(3r)^2} = \frac{k}{9r^2} \quad F_2 = \frac{1}{9}F_1$$

*The force is 1/4th as much.*

*The force is 1/9th as much.*

3. Two positive charges of  $6.0 \times 10^{-6} \text{ C}$  are separated by 0.50 m. Draw a force diagram for each of the charges, considering only electrostatic forces. What is the magnitude of the force between the charges? Is this force repulsive or attractive?



$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (6.0 \times 10^{-6} \text{ C})(6.0 \times 10^{-6} \text{ C})}{(.50\text{m})^2} = 1.3\text{N}$$

*Like charge repells, so the force is repulsive.*

4. A negative charge of  $2.0 \times 10^{-4} \text{ C}$  and a positive charge of  $8.0 \times 10^{-4} \text{ C}$  are separated by 0.30 m. What is the magnitude of the force between the charges? Is this force repulsive or attractive?

$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (-2.0 \times 10^{-4} \text{ C})(8.0 \times 10^{-4} \text{ C})}{(.30\text{m})^2} = 1600\text{N}$$

*Opposite charges attract, so the force is attractive.*

5. A young man accumulates a charge  $q_1$  of  $+2.0 \times 10^{-5} \text{ C}$  while sliding out of the front seat of a car. His girlfriend, who had been waiting in the wind, has picked up some extra electrons and now has a charge  $q_2$  of  $-8.0 \times 10^{-5} \text{ C}$ .

Draw a sketch of the situation. Estimate the magnitude of the electrical force that each person exerts on the other when separated by a distance of 6.0 m. Is the force attractive or repulsive?

$$F = k \frac{q_1 q_2}{r^2} \quad F = \frac{9.0 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2} (2.0 \times 10^{-5} \text{ C})(-8.0 \times 10^{-5} \text{ C})}{(6.0\text{m})^2} = .40\text{N}$$

# Modeling Workshop Project 20unit V Worksheet 3

## Answers

**Marcel A. Müller**



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### **Table of Contents Modeling Workshop Project 20unit V Worksheet 3 Answers**

1. Understanding the eBook Modeling Workshop Project 20unit V Worksheet 3 Answers
  - The Rise of Digital Reading Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Modeling Workshop Project 20unit V Worksheet 3 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Personalized Recommendations
  - Modeling Workshop Project 20unit V Worksheet 3 Answers User Reviews and Ratings
  - Modeling Workshop Project 20unit V Worksheet 3 Answers and Bestseller Lists
5. Accessing Modeling Workshop Project 20unit V Worksheet 3 Answers Free and Paid eBooks
  - Modeling Workshop Project 20unit V Worksheet 3 Answers Public Domain eBooks
  - Modeling Workshop Project 20unit V Worksheet 3 Answers eBook Subscription Services

- Modeling Workshop Project 20unit V Worksheet 3 Answers Budget-Friendly Options
- 6. Navigating Modeling Workshop Project 20unit V Worksheet 3 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Modeling Workshop Project 20unit V Worksheet 3 Answers Compatibility with Devices
  - Modeling Workshop Project 20unit V Worksheet 3 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Highlighting and Note-Taking Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Interactive Elements Modeling Workshop Project 20unit V Worksheet 3 Answers
- 8. Staying Engaged with Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Modeling Workshop Project 20unit V Worksheet 3 Answers
- 9. Balancing eBooks and Physical Books Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Modeling Workshop Project 20unit V Worksheet 3 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Setting Reading Goals Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Fact-Checking eBook Content of Modeling Workshop Project 20unit V Worksheet 3 Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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