

## Lesson 12 Homework 45 Answer Key

**A STORY OF RATIOS** **Lesson 12** **7•1**

**Problem Set**

- You are getting ready for a family vacation. You decide to download as many movies as possible before leaving for the road trip. If each movie takes  $1\frac{2}{3}$  hours to download, and you downloaded for  $5\frac{1}{4}$  hours, how many movies did you download?  
 $\frac{1 \text{ movie}}{1\frac{2}{3} \text{ hr}} \cdot 5\frac{1}{4} \text{ hr} = 1\frac{1}{2} = \frac{3}{2} \text{ movie}$   
 $\frac{3}{2} \text{ movie} \times 5\frac{1}{4} \text{ hr} = \frac{3}{2} \times \frac{21}{4} = \frac{63}{8} = 7\frac{7}{8}$   
*Unit rate:  $\frac{3}{2}$  movie per hour*  
*Yes there is more than 1 unit rate.*
- The area of a blackboard is  $1\frac{1}{3}$  square yards. A poster's area is  $\frac{8}{9}$  square yards. Find the unit rate and explain, in words, what the unit rate means in the context of this problem. Is there more than one unit rate that can be calculated? How do you know?  
*depends on what you are comparing*  
*Yes there is more than 1 unit rate.*
- A toy jeep is  $12\frac{1}{2}$  inches long, while an actual jeep measures  $18\frac{3}{4}$  feet long. What is the value of the ratio of the length of the toy jeep to the length of the actual jeep? What does the ratio mean in this situation?  
 $\frac{12\frac{1}{2} \text{ in toy}}{18\frac{3}{4} \text{ ft actual}} = \frac{\frac{25}{2} \text{ in toy}}{\frac{75}{2} \text{ ft actual}} = \frac{25}{75} = \frac{1}{3}$   
*for every 1 ft the actual jeep measures, the toy will measure  $\frac{1}{3}$  in.*
- To make 5 dinner rolls,  $\frac{1}{3}$  cup of flour is used.
  - How much flour is needed to make one dinner roll?
  - How many cups of flour are needed to make 3 dozen dinner rolls?
  - How many rolls can you make with  $5\frac{2}{3}$  cups of flour?

2.)  $\frac{1\frac{1}{3} \text{ yd}^2 \text{ blackboard}}{\frac{8}{9} \text{ yd}^2 \text{ poster}} = \frac{\frac{4}{3}}{\frac{8}{9}} = \frac{4}{3} \times \frac{9}{8} = \frac{3}{2} = \frac{1\frac{1}{2} \text{ yd}^2 \text{ blackboard's Area}}{1 \text{ yd}^2 \text{ poster's Area}}$   
*or --*  
 $\frac{\frac{8}{9} \text{ yd}^2 \text{ poster}}{1\frac{1}{3} \text{ yd}^2 \text{ blackboard}} = \frac{\frac{8}{9}}{\frac{4}{3}} = \frac{8}{9} \times \frac{3}{4} = \frac{2}{3} = \frac{\frac{2}{3} \text{ yd}^2 \text{ poster}}{1 \text{ yd}^2 \text{ blackboard}}$

4.) a)  $\frac{\text{Flour}}{\text{roll}} = \frac{\frac{1}{3} \text{ cup}}{5 \text{ rolls}} = \frac{1}{3} \text{ c} \div 5 = \frac{1}{3} \times \frac{1}{5} \text{ roll} = \frac{1}{15} \text{ c. flour per roll}$   
*1 roll needs  $\frac{1}{15}$  c. flour*

b.)  $36 \text{ rolls} \times \frac{1}{15} \text{ c.} = \frac{36}{15} \text{ c. flour} = 2\frac{4}{5} \text{ c. flour} = 2\frac{8}{10} \text{ c. flour}$

c.)  $5\frac{2}{3} \text{ c. flour} \times \frac{1 \text{ roll}}{\frac{1}{15} \text{ c. flour}} = \frac{17}{3} \div \frac{1}{15} = \frac{17}{3} \times \frac{15}{1} = 85 \text{ rolls}$

**EUREKA MATH™** **Lesson 12: Ratio of Fractions and Their Unit Rates** **S.57**

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**Lesson 12 Homework 45 Answer Key** is a crucial resource for students, parents, and educators alike. It serves as a guide to assess the understanding of the material covered in Lesson 12 of a particular educational curriculum. Homework assignments play a vital role in reinforcing learning and providing a structured environment for practice. In this article, we will delve into the significance of Lesson 12, explore common types of problems typically found in homework assignments, and provide an answer key for Homework 45. Additionally, we will discuss strategies for effective homework completion and the importance of feedback in the learning process.

# Understanding Lesson 12

Lesson 12 is often a pivotal point in many educational programs, whether in mathematics, science, language arts, or any other subject. Each lesson is designed to build upon the knowledge gained in previous lessons, thereby reinforcing key concepts and introducing new ideas.

## Key Concepts Covered in Lesson 12

In the context of a typical curriculum, Lesson 12 might cover a variety of topics, such as:

- Mathematics: Introduction to fractions, percentages, or geometry.
- Science: Basic principles of biology, chemistry, or physics.
- Language Arts: Grammar rules, vocabulary development, or reading comprehension.
- Social Studies: Historical events, geography, or cultural studies.

These topics are intended to enhance students' understanding and provide them with the skills necessary to progress to more advanced materials.

## The Role of Homework

Homework is an essential component of the educational process. It allows students to practice what they have learned in the classroom, solidify their understanding, and develop independent study habits.

## Benefits of Completing Homework

The advantages of completing homework assignments include:

1. Reinforcement of Learning: Homework helps to reinforce the concepts taught in class.
2. Development of Study Skills: It encourages students to develop effective study habits and time management skills.
3. Preparation for Assessments: Regular homework prepares students for quizzes, tests, and exams.
4. Opportunity for Feedback: Homework provides a chance for teachers to assess student understanding and provide feedback.

# Homework 45: Common Types of Problems

Homework 45 typically consists of a variety of problems that assess students' grasp of the lesson's key concepts. Below are some common types of problems that may be included:

## Mathematics Problems

- Word Problems: Applying mathematical concepts to real-world scenarios.
- Equations: Solving for unknown variables.
- Graphing: Plotting points or interpreting graphs.

## Language Arts Problems

- Grammar Exercises: Identifying parts of speech or correcting sentences.
- Reading Comprehension: Answering questions based on a given text.
- Vocabulary: Using words in context or matching definitions.

## Science Problems

- Experiments: Designing a simple experiment to test a hypothesis.
- Diagrams: Labeling parts of a cell or a human body system.
- Concept Questions: Answering questions about key scientific principles.

## Answer Key for Homework 45

Below is a sample answer key for Homework 45, based on typical questions one might find in Lesson 12 assignments. Please note that the specifics may vary depending on the curriculum used.

## Sample Answers

1. Mathematics:
  - Question 1: Solve for  $x$  in the equation  $3x + 4 = 10$ .
  - Answer:  $x = 2$
  - Question 2: A word problem involving fractions.

- Answer:  $\frac{1}{2}$  of  $\frac{3}{4}$  is  $\frac{3}{8}$ .

## 2. Language Arts:

- Question 1: Identify the verb in the sentence: "The cat jumped over the fence."

- Answer: jumped

- Question 2: Reading comprehension question based on a passage.

- Answer: The main idea of the passage is...

## 3. Science:

- Question 1: Label the parts of a plant cell.

- Answer: Cell wall, cell membrane, nucleus, chloroplasts (and others as appropriate).

- Question 2: Describe the process of photosynthesis.

- Answer: Photosynthesis is the process by which green plants use sunlight to synthesize foods with the help of chlorophyll.

# Strategies for Effective Homework Completion

Completing homework effectively requires a combination of good study habits, organization, and time management. Here are some strategies that can help:

1. Set a Regular Schedule: Designate specific times each day for homework to create a routine.
2. Create a Distraction-Free Environment: Find a quiet place to work where distractions are minimized.
3. Break Tasks into Smaller Parts: If the assignment is large, break it into manageable sections to avoid feeling overwhelmed.
4. Use Resources Wisely: Utilize textbooks, online resources, and study groups for assistance.
5. Ask for Help: If stuck on a problem, don't hesitate to ask a teacher or peer for clarification.

# The Importance of Feedback

Receiving feedback on homework is crucial for students' learning and development. Feedback helps students understand their mistakes, reinforces correct answers, and clarifies misunderstandings. It also motivates students to improve and excel.

# How to Use Feedback Effectively

- Review Corrections: Go over any missed problems with your teacher to understand where you went wrong.
- Reflect on Comments: Consider feedback given on written assignments to enhance writing skills in the

future.

- Set Goals: Use the insights gained from feedback to set future academic goals.

## Conclusion

In conclusion, Lesson 12 Homework 45 Answer Key serves as a vital tool for students to evaluate their understanding of the material presented in Lesson 12. By providing clarity on various problems and reinforcing the concepts learned, the answer key promotes effective learning. Additionally, the strategies for homework completion and the importance of feedback are integral to academic success. As students continue to engage with their assignments, they develop essential skills and knowledge that will aid them in their educational journey.

## Frequently Asked Questions

### **What is the primary focus of lesson 12 in the homework assignment?**

Lesson 12 typically focuses on advanced concepts related to the subject matter, emphasizing critical thinking and application of previously learned material.

### **Where can I find the answer key for homework 45 related to lesson 12?**

The answer key for homework 45 can usually be found in the teacher's resource section of the educational platform or provided by the instructor directly.

### **Are answer keys for lesson 12 homework 45 available online?**

Yes, answer keys for lesson 12 homework 45 may be available on educational websites, forums, or through peer sharing, but ensure to use them responsibly.

### **How can I verify the answers from the lesson 12 homework 45 answer key?**

To verify the answers, you can cross-check them with your textbook solutions, discuss with classmates, or consult your teacher for clarification.

### **What should I do if I find discrepancies in the lesson 12 homework 45 answer key?**

If you find discrepancies, it's best to bring them to your teacher's attention, as they can provide guidance and clarify any misunderstandings.

# Can using the answer key for lesson 12 homework 45 help improve my understanding of the material?

Yes, using the answer key can help reinforce your understanding by allowing you to check your work and understand the reasoning behind the correct answers.

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## Lesson 12 Homework 45 Answer Key

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Struggling with Lesson 12 homework 45? Find the complete answer key here for quick and easy

solutions. Learn more to ace your assignments today!

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