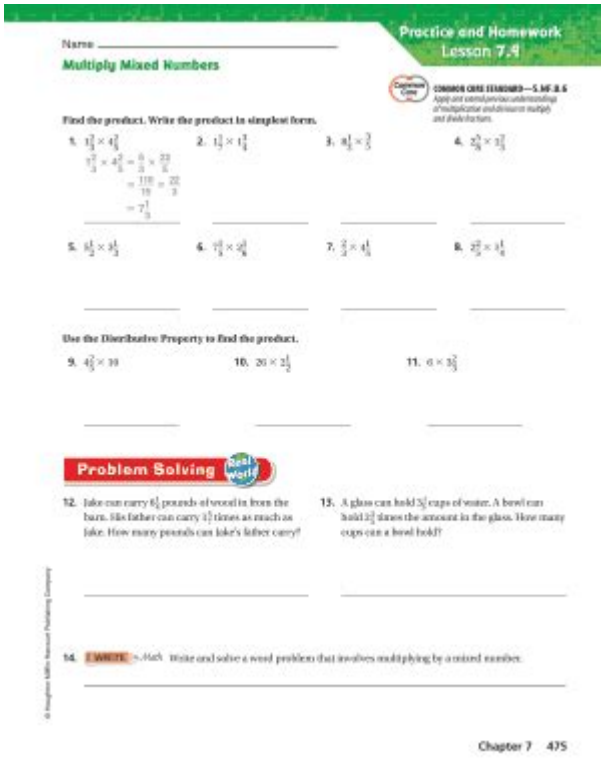
Lesson 7 Divide With Fractions Answer Key


Name _____

Practice and Homework
Lesson 7.4

Multiply Mixed Numbers

Find the product. Write the product in simplest form.

1. $1\frac{2}{3} \times 4\frac{2}{5}$
$1\frac{2}{3} \times 4\frac{2}{5} = \frac{5}{3} \times \frac{22}{5}$
$= \frac{110}{15} = \frac{22}{3}$
$= 7\frac{1}{3}$

2. $1\frac{1}{4} \times 1\frac{3}{4}$

3. $8\frac{1}{2} \times \frac{2}{3}$

4. $2\frac{2}{3} \times 3\frac{1}{2}$

5. $8\frac{1}{2} \times 3\frac{1}{3}$

6. $7\frac{1}{3} \times 2\frac{2}{4}$

7. $\frac{2}{3} \times 4\frac{1}{4}$

8. $2\frac{2}{3} \times 1\frac{1}{4}$

Use the Distributive Property to find the product.

9. $4\frac{2}{3} \times 10$

10. $20 \times 2\frac{1}{2}$

11. $6 \times 3\frac{2}{3}$

Problem Solving Real World

12. Jake can carry $6\frac{1}{2}$ pounds of wood in from the barn. His father can carry $1\frac{1}{2}$ times as much as Jake. How many pounds can Jake's father carry?

13. A glass can hold $3\frac{1}{2}$ cups of water. A bowl can hold $2\frac{1}{2}$ times the amount in the glass. How many cups can a bowl hold?

14. WRITE Math Write and solve a word problem that involves multiplying by a mixed number.

Chapter 7 475

Lesson 7 Divide with Fractions Answer Key is a crucial resource for students learning the fundamental concepts of division involving fractions. Understanding how to divide with fractions is an essential skill in mathematics, and it lays the groundwork for more advanced topics. This article will explore the concepts behind dividing fractions, provide step-by-step methods, and present a comprehensive answer key for Lesson 7 exercises.

Understanding Division with Fractions

Dividing fractions may seem complex at first, but it can be simplified with a clear understanding of the process. When dividing fractions, we actually multiply by the reciprocal of the divisor. The reciprocal of a fraction is obtained by swapping its numerator and denominator.

The Basic Steps of Dividing Fractions

To divide fractions, follow these steps:

1. Identify the fractions: Write down the two fractions that you will be dividing.
2. Find the reciprocal: Flip the second fraction (the divisor) to find its reciprocal.
3. Multiply the fractions: Multiply the first fraction (the dividend) by the reciprocal of the second fraction.
4. Simplify the result: If possible, simplify the resulting fraction to its lowest terms.

Example of Dividing Fractions

Consider the division problem $\frac{3}{4} \div \frac{2}{5}$:

1. Identify the fractions: $\frac{3}{4}$ and $\frac{2}{5}$.
2. Find the reciprocal of $\frac{2}{5}$: The reciprocal is $\frac{5}{2}$.
3. Multiply:
$$
\frac{3}{4} \times \frac{5}{2} = \frac{3 \times 5}{4 \times 2} = \frac{15}{8}
$$
4. Simplify: $\frac{15}{8}$ is already in its simplest form.

Common Mistakes in Dividing Fractions

Understanding the common pitfalls can help students avoid errors in their calculations. Here are several mistakes to watch out for:

- Forgetting to use the reciprocal: Students may accidentally copy the second fraction instead of flipping it.
- Incorrect multiplication: When multiplying the fractions, it’s easy to miscalculate, especially under time pressure.
- Neglecting to simplify: Leaving a fraction in an unsimplified form can lead to incorrect answers or confusion.

Answer Key for Lesson 7 Exercises

Below is the answer key for the exercises in Lesson 7 focused on dividing fractions. This section includes a variety of problems to give students a comprehensive understanding.

Exercise 1: Basic Division of Fractions

1. $\frac{1}{2} \div \frac{1}{3} = \frac{3}{2}$
2. $\frac{4}{5} \div \frac{2}{3} = \frac{6}{5}$
3. $\frac{3}{4} \div \frac{1}{2} = \frac{3}{2}$

Exercise 2: Mixed Numbers

1. $1 \frac{1}{2} \div \frac{3}{4} = \frac{6}{3} = 2$
2. $2 \frac{2}{3} \div 1 \frac{1}{2} = \frac{8}{5}$
3. $3 \frac{1}{4} \div \frac{1}{2} = \frac{13}{5}$

Exercise 3: Word Problems

1. If a recipe calls for $\frac{3}{4}$ cup of sugar, and you want to make $\frac{1}{3}$ of the recipe, how much sugar do you need?
$\frac{3}{4} \div \frac{1}{3} = \frac{3}{4} \times \frac{3}{1} = \frac{9}{4} = 2 \frac{1}{4}$ cups.

2. A fabric piece measures $\frac{5}{6}$ yards, and you want to cut it into pieces that are $\frac{1}{2}$ yard long. How many pieces can you cut?
$\frac{5}{6} \div \frac{1}{2} = \frac{5}{6} \times \frac{2}{1} = \frac{10}{6} = \frac{5}{3}$ pieces, or 1 full piece and $\frac{2}{3}$ of another.

Practice Problems for Students

To reinforce the concepts learned in Lesson 7, students should practice the following problems.

Basic Division Problems

1. $\frac{5}{8} \div \frac{1}{4}$
2. $\frac{7}{10} \div \frac{2}{5}$
3. $\frac{9}{14} \div \frac{3}{7}$

Mixed Numbers Problems

1. $2 \frac{1}{2} \div \frac{3}{5}$
2. $1 \frac{3}{4} \div 2 \frac{1}{2}$
3. $3 \frac{2}{3} \div \frac{5}{6}$

Word Problems

1. A baker uses $\frac{2}{3}$ cup of flour for one batch of cookies. How many batches can be made with $\frac{5}{6}$ cup of flour?
2. If a garden measures $1 \frac{1}{2}$ acres and each plot is $\frac{3}{4}$ acres, how many plots can be created?

Conclusion

Lesson 7 Divide with Fractions Answer Key serves as a guide to help students grasp the concept of dividing fractions effectively. By understanding the fundamental steps, recognizing common mistakes, and engaging in practice problems, students can develop confidence in their ability to

tackle more complex mathematical challenges. As they continue their studies, the skills acquired in this lesson will be invaluable in their academic journey. Encouragement and consistent practice will lead to mastery, making division with fractions a straightforward task.

Frequently Asked Questions

What is the primary concept taught in lesson 7 regarding dividing fractions?

Lesson 7 focuses on the method of dividing fractions by multiplying the first fraction by the reciprocal of the second fraction.

How do you find the reciprocal of a fraction?

To find the reciprocal of a fraction, you simply swap the numerator and the denominator.

Can you divide a fraction by a whole number directly?

No, you should convert the whole number to a fraction by placing it over 1, and then follow the method of multiplying by the reciprocal.

What is an example problem from lesson 7 that involves dividing fractions?

An example would be dividing 2/3 by 4/5, which can be solved by multiplying 2/3 by the reciprocal of 4/5, resulting in 10/12 or simplified to 5/6.

What common mistakes do students make when dividing fractions?

Common mistakes include forgetting to take the reciprocal or incorrectly simplifying the final answer.

Is it necessary to simplify the fraction in the answer key for lesson 7?

Yes, simplifying the final fraction is important for clarity and to present the answer in its simplest form.

What additional resources can help with understanding lesson 7?

Online tutorials, practice worksheets, and instructional videos can provide additional support and clarity on dividing fractions.

How can teachers assess students' understanding of dividing fractions in lesson 7?

Teachers can use quizzes, homework assignments, and group activities to evaluate students' grasp of the concept and their ability to apply it.

Find other PDF article:
https://soc.up.edu.ph/54-tone/Book?ID=PEw69-5204&title=skinbetter-science-exfoliating-peel-pads.pdf

Lesson 7 Divide With Fractions Answer Key

如何看待杰洛·齐贝林的五个lesson?又该如何做到? - 知乎

除非你有确凿的证据 lesson four尊敬你做的事，不要去在意结果果断放弃结果才有资格完成你的目标 lesson five 最远的路就是最近的路，不要抄近道老老实实练。本人对这五个lesson省油感 …

新概念英语第二册Lesson 60深精讲解 - 知乎

本号长期分析讲解新概念英语，新概念英语第二册里面的每个句子，句子结构，背后语法，上下文用法，今天，我们逐词逐句讲解新概念英语第二册Lesson 60，目的是带领大家背诵下来，但 …

course、class、lesson和subject译为“课”时有什么区别? - 知乎

Nov 19, 2021 · 泛读与词汇 英语学习方法与内容分享 6 人赞同了该回答 course是课程，针对某个主题讲授一系列的内容 class是强调课堂的形式 lesson是课本上一个单位的内容 subject是主题 …

儿子五年级了，想揍一顿屁股，该怎么揍? - 知乎

1、告诉他因为什么事，所以要打他屁股。 2、可以给他3~5分钟准备时间。 3、准备时间到了之后，让他脱掉裤子还有nk，露出屁股，让他趴到你的腿上或者沙发上。建议选择一个工具，个人 …

如何解读杰洛说的「最短的捷径就是绕远路」? - 知乎

Apr 9, 2017 · 天下的事,有时是不以人的意志为转移的 你想这样作,却偏偏一下子办不到 但转了一个圈，事情又办成了 ---李德胜 (1935年5月完成巧渡金沙江后在会理的讲话) 最近看了B站UP 沙 …

新概念英语第二册**Lesson 38**深精讲解 - 知乎

本号长期分析讲解新概念英语，新概念英语第二册里面的每个句子，句子结构，背后语法，上下文用法，今天，我们逐词逐句讲解新概念英语第二册Lesson 38，目的是带领大家背诵下来，但 …

lesson与**subject**的区别? - 知乎

谢邀 lesson 课 如 piano lessons, the second lesson (这里跟class差不多)；课 (就是几节课) 如 30 lessons, a lesson;经验 教训 如give sb. a lesson (第二个意思也可以这么用 意为给某人 …

新概念英语第二册Lesson 29深精讲解与背诵指导 - 知乎

本号长期分析讲解新概念英语，新概念英语第二册里面的每个句子，句子结构，背后语法，上下文用法，今天，我们逐词逐句讲解新概念英语第二册Lesson 29，目的是带领大家背诵下来，但 …

中国人学韩语有多简单?！最好的韩语入门教程! 不要再走弯路了~

May 5, 2022 · 中国人学韩语有多简单?！最好的韩语入门教程！不要再走弯路了～ 栗子奶糕 因为天气好，因为天气不好，因为天气刚刚好 11 46 作为一个五个月过TOPIK6、韩语N年学者， ...

新概念英语第二册**Lesson 27**深精讲解与背诵指导 **-** 知乎

本号长期分析讲解新概念英语，新概念英语第二册里面的每个句子，句子结构，背后语法，上下文用法，今天，我们逐词逐句讲解新概念英语第二册Lesson 27，目的是带领大家背诵下来，但 ...

如何看待杰洛•齐贝林的五个**lesson?**又该如何做到? **-** 知乎

除非你有确凿的证据 lesson four尊敬你做的事，不要去在意结果果断放弃结果才有资格完成你的目标 lesson five 最远的路就是最 ...

新概念英语第二册Lesson 60深精讲解 - 知乎

本号长期分析讲解新概念英语，新概念英语第二册里面的每个句子，句子结构，背后语法，上下文用法，今天，我们逐词逐句讲解 ...

course、class、lesson和subject译为"课"时有什么区别...

Nov 19, 2021 · 泛读与词汇 英语学习方法与内容分享 6 人赞同了该回答 course是课程，针对某个主题讲授一系列的内容 class是强 ...

儿子五年级了，想揍一顿屁股，该怎么揍? - 知乎

1、告诉他因为什么事，所以要打他屁股。 2、可以给他3~5分钟准备时间。 3、准备时间到了之后，让他脱掉裤子还有nk，露出屁 ...

如何解读杰洛说的「最短的捷径就是绕远路」? **-** 知乎

Apr 9, 2017 · 天下的事,有时是不以人的意志为转移的 你想这样作,却偏偏一下子办不到 但转了一个圈，事情又办成了 ---李德胜 (1935 ...

Unlock the secrets of Lesson 7 with our comprehensive divide with fractions answer key. Master the concepts and boost your skills today! Learn more now.

Back to Home