

Envision Math 5th Grade Topic 7 Answers

Name _____

Practice Video Tools Games

Another Look!

Frog Trail is 1,976 meters long. Shondra walks 43 meters of the trail each minute. About how many minutes will it take Shondra to walk the trail?

Find compatible numbers. Think of a basic fact. Then use place-value patterns.

$$\begin{array}{r} 1,976 \div 43 \\ \downarrow \quad \downarrow \\ 2,000 \div 40 = 50 \end{array}$$


$2,000 \div 40 = 50$, so
 $1,976 \div 43$ is about 50.

It would take Shondra about 50 minutes.

Additional Practice 5-2

Estimate Quotients with 2-Digit Divisors

You can use a basic fact and place-value patterns.



Leveled Practice

In 1–3, fill in the blanks to find the estimates.

1. $1,769 \div 23$
 $\downarrow \quad \downarrow$
 $1,800 \div \square = \square$

2. $516 \div 48$
 $\downarrow \quad \downarrow$
 $500 \div \square = \square$

3. $891 \div 32$
 $\downarrow \quad \downarrow$
 $\square \div \square = \square$

In 4–15, estimate using compatible numbers.

4. $241 \div 34$

5. $705 \div 11$

6. $7,968 \div 22$

7. $5,624 \div 72$

8. $1,043 \div 23$

9. $986 \div 12$

10. $642 \div 94$

11. $4,870 \div 58$

12. $5,721 \div 79$

13. $148 \div 51$

14. $9,073 \div 11$

15. $3,514 \div 58$

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Topic 5 | Lesson 5-2

65

Envision math 5th grade topic 7 answers are essential for students to master their understanding of fractions, which is one of the core components of the 5th grade curriculum. This topic delves into the various operations involving fractions, including addition, subtraction, multiplication, and division. By grasping these concepts, students can build a solid foundation for more advanced mathematical operations in the future. This article will provide an overview of Envision Math's Topic 7, key concepts covered, and tips for both students and parents to navigate through the material effectively.

Overview of Envision Math 5th Grade Topic 7

Envision Math is designed to engage students through interactive learning experiences. Topic 7 specifically focuses on fractions and their operations, which are critical for developing mathematical reasoning and problem-solving skills. The main objectives of this topic include:

- Understanding how to add and subtract fractions with like and unlike denominators.
- Learning how to multiply fractions and mixed numbers.
- Dividing fractions and understanding reciprocal relationships.
- Applying fraction operations in real-world scenarios.

Each of these objectives is broken down into manageable lessons that build upon one another, ensuring that students have a comprehensive understanding of the material.

Key Concepts in Topic 7

Addition and Subtraction of Fractions

One of the first concepts students will encounter in Topic 7 is the addition and subtraction of fractions. This section emphasizes the importance of having a common denominator.

- **Like Denominators:** When adding or subtracting fractions with the same denominator, students simply add or subtract the numerators while keeping the denominator the same. For example:

- $\frac{1}{4} + \frac{2}{4} = \frac{(1 + 2)}{4} = \frac{3}{4}$
- $\frac{3}{5} - \frac{1}{5} = \frac{(3 - 1)}{5} = \frac{2}{5}$

- **Unlike Denominators:** To add or subtract fractions with different denominators, students must first find a common denominator. This often involves finding the least common multiple (LCM) of the denominators. For example:

- $\frac{1}{3} + \frac{1}{6}$: The LCM of 3 and 6 is 6. Rewrite $\frac{1}{3}$ as $\frac{2}{6}$, leading to:
 $\frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$

Multiplication of Fractions

Multiplying fractions is generally more straightforward than addition or subtraction because students do not need a common denominator. Instead, they multiply the numerators together and the denominators together.

- For example:
- $(2/3) (4/5) = (2 \cdot 4) / (3 \cdot 5) = 8/15$

To multiply a fraction by a mixed number, students should convert the mixed number into an improper fraction first.

- Example:
- $2 \frac{1}{2} = 5/2$
- $(3/4) (5/2) = (3 \cdot 5) / (4 \cdot 2) = 15/8$

Division of Fractions

Dividing fractions involves a simple rule: multiply by the reciprocal of the divisor. The reciprocal of a fraction is created by flipping the numerator and denominator.

- For example:
- $(3/4) \div (2/5) = (3/4) (5/2) = (3 \cdot 5) / (4 \cdot 2) = 15/8$

This concept can be challenging for students, so it is crucial to practice various problems to build confidence.

Practice Problems and Answers

To help students grasp these concepts, it is beneficial to provide practice problems that align with the lessons in Envision Math Topic 7. Below are some sample problems along with their answers.

Addition and Subtraction

- 1. $3/5 + 1/10 = ?$
Answer: $7/10$
- 2. $7/8 - 1/4 = ?$
Answer: $5/8$

Multiplication

- 1. $(1/3) (3/4) = ?$
Answer: $1/4$
- 2. $(2/5) (1 \frac{1}{2}) = ?$
Answer: $3/5$

Division

- 1. $(2/3) \div (4/5) = ?$
Answer: $5/6$
- 2. $(3/4) \div (1/2) = ?$
Answer: $3/2$ or $1 \frac{1}{2}$

Tips for Mastering Topic 7

Here are some effective strategies for both students and parents to enhance understanding of fractions:

1. Use Visual Aids

Visual aids, such as fraction circles and bars, can help students better understand the concept of fractions and their operations. Drawing diagrams or using colored pencils to illustrate problems can also be beneficial.

2. Practice Regularly

Consistent practice is key to mastering mathematical concepts. Parents can encourage their children to work on additional problems from the textbook or online resources.

3. Relate to Real Life

Incorporating fractions into everyday situations, such as cooking or measuring, can make learning more relatable and fun. For example, ask students to double a recipe and figure out the new measurements for each ingredient.

4. Encourage Peer Learning

Studying in groups can foster collaborative learning. Encourage students to discuss problems and solutions with peers, which can help clarify doubts and reinforce understanding.

Conclusion

Envision math 5th grade topic 7 answers provide a roadmap for students as they navigate through the complex world of fractions. By mastering addition, subtraction, multiplication, and division of fractions, students can build a strong mathematical foundation that will serve them well in future studies. With the right resources, practice, and support, students can excel in this essential topic and develop a love for mathematics.

Frequently Asked Questions

What is the main focus of Topic 7 in Envision Math for 5th grade?

Topic 7 focuses on the concept of 'Adding and Subtracting Fractions', where students learn how to compute and apply fractions in various mathematical problems.

How can I access the answers for Topic 7 in Envision Math 5th grade?

Answers for Topic 7 can typically be found in the Envision Math teacher's edition, or by using online resources like educational websites that provide homework help.

What strategies are recommended for solving problems in Topic 7?

Recommended strategies include finding a common denominator, using visual aids like fraction bars, and practicing with word problems to enhance understanding.

Are there any common misconceptions students have in Topic 7?

A common misconception is confusing the addition and subtraction of fractions, particularly when dealing with unlike denominators, which can lead to incorrect answers.

What types of problems can students expect in Topic 7?

Students will encounter problems that require them to add and subtract fractions with like and unlike denominators, as well as word problems that involve real-life applications.

How does Topic 7 prepare students for future math concepts?

Topic 7 lays a foundational understanding of fractions, which is crucial for future topics such as mixed numbers, improper fractions, and operations involving decimals.

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