

My Homework Lesson 4 Equivalent Fractions Answer Key

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Equivalent Fractions Answer Key

$$1) \quad \frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30} = \frac{14}{35}$$

$$2) \quad \frac{1}{10} = \frac{2}{20} = \frac{3}{30} = \frac{4}{40} = \frac{5}{50} = \frac{6}{60} = \frac{7}{70}$$

$$3) \quad \frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20} = \frac{18}{24} = \frac{21}{28}$$

$$4) \quad \frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12} = \frac{7}{14}$$

$$5) \quad \frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \frac{7}{21}$$

My Homework Lesson 4 Equivalent Fractions Answer Key is a crucial resource for students mastering the concept of equivalent fractions. Understanding equivalent fractions is foundational in mathematics, particularly in topics involving addition, subtraction, and simplification of fractions. This article will provide a comprehensive overview of equivalent fractions, methods to identify them, examples, and the answer key for Lesson 4 of a typical homework assignment.

Understanding Equivalent Fractions

Equivalent fractions are different fractions that represent the same value or proportion of a whole. For instance, the fractions $\frac{1}{2}$, $\frac{2}{4}$, and $\frac{4}{8}$ are all equivalent because they represent the same part of a

whole. The concept of equivalent fractions is essential for students as they progress in their mathematical education, particularly when learning about addition, subtraction, and comparison of fractions.

How to Find Equivalent Fractions

There are several methods to find equivalent fractions. The two most common methods include:

1. **Multiplication:** To find equivalent fractions, multiply both the numerator (top number) and the denominator (bottom number) of a fraction by the same non-zero whole number. For example:
 - Start with the fraction $\frac{1}{3}$.
 - Multiply both the numerator and denominator by 2: $(1 \times 2) / (3 \times 2) = \frac{2}{6}$.
 - Thus, $\frac{1}{3}$ is equivalent to $\frac{2}{6}$.
2. **Division:** Alternatively, you can find equivalent fractions by dividing both the numerator and the denominator by the same non-zero whole number. For example:
 - Start with the fraction $\frac{6}{9}$.
 - Divide both the numerator and denominator by 3: $(6 \div 3) / (9 \div 3) = \frac{2}{3}$.
 - Therefore, $\frac{6}{9}$ is equivalent to $\frac{2}{3}$.

Identifying Equivalent Fractions

When tasked with identifying equivalent fractions, students can use several strategies:

Visual Representation

Using visual aids such as pie charts or fraction bars can help students see equivalent fractions more clearly. For example, drawing a pie divided into 4 equal parts and shading 2 can be compared to a pie divided into 8 equal parts, where 4 parts are shaded. Both visually represent the same amount, demonstrating equivalence.

Cross-Multiplication

Another effective method for identifying equivalent fractions is cross-multiplication. For example, to check if $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent, multiply across the fractions:

- $2 \times 6 = 12$
- $3 \times 4 = 12$

Since both products are equal, $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent fractions.

Examples of Equivalent Fractions

Here are several examples of equivalent fractions to illustrate the concept further:

1. $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$
2. $\frac{3}{5} = \frac{6}{10} = \frac{9}{15}$
3. $\frac{5}{6} = \frac{10}{12} = \frac{15}{18}$
4. $\frac{7}{8} = \frac{14}{16} = \frac{21}{24}$

These examples can be valuable for students as they practice identifying and creating equivalent fractions.

My Homework Lesson 4 Equivalent Fractions Answer Key

For students working on "My Homework Lesson 4," the answer key can serve as a reference to check their understanding and correctness in identifying equivalent fractions. Below are hypothetical problems and their corresponding answers that might be found in a typical Lesson 4 assignment.

Sample Problems

1. Problem 1: Write two equivalent fractions for $\frac{3}{4}$.
- Answer: $\frac{6}{8}$ and $\frac{9}{12}$.
2. Problem 2: Which of the following fractions are equivalent to $\frac{1}{5}$? (Choose all that apply)
 - a) $\frac{2}{10}$
 - b) $\frac{3}{15}$
 - c) $\frac{4}{20}$

- d) 5/25

- Answer: a) 2/10, b) 3/15, c) 4/20, d) 5/25. All options are equivalent to 1/5.

3. Problem 3: Determine if the following fractions are equivalent: 8/10 and 4/5.

- Answer: Yes, they are equivalent. (Cross-multiplication: $8 \times 5 = 40$ and $10 \times 4 = 40$)

4. Problem 4: Simplify the fraction 12/16 and find an equivalent fraction.

- Answer: 12/16 simplifies to 3/4, which is an equivalent fraction.

5. Problem 5: Fill in the blank: $5/x = 10/20$. What is x?

- Answer: $x = 2$ (Cross-multiply: $5 \times 20 = 10 \times x \rightarrow 100 = 10x \rightarrow x = 10$)

Conclusion

Understanding **My Homework Lesson 4 Equivalent Fractions Answer Key** is an essential part of mastering the concept of equivalent fractions in mathematics. By employing methods such as multiplication and division, visual representations, and cross-multiplication, students can effectively identify and create equivalent fractions. Utilizing the answer key not only provides immediate feedback but also reinforces learning and enhances confidence in dealing with fractions.

In summary, as students practice and engage with equivalent fractions, they build a solid foundation for future mathematical concepts. Mastery of this topic will be beneficial in various areas of math, including algebra, geometry, and beyond.

Frequently Asked Questions

What are equivalent fractions?

Equivalent fractions are different fractions that represent the same value or proportion of a whole, such as 1/2 and 2/4.

How can I find equivalent fractions for 3/4?

To find equivalent fractions for 3/4, you can multiply or divide both the numerator and denominator by the same number. For example, multiplying by 2 gives you 6/8.

Why is it important to understand equivalent fractions?

Understanding equivalent fractions is important as it helps in simplifying fractions, comparing them, and performing operations like addition and subtraction.

What is a quick method to check if two fractions are equivalent?

A quick method to check if two fractions are equivalent is to cross-multiply. If the cross products are equal, the fractions are equivalent.

What is the answer key for lesson 4 on equivalent fractions?

The answer key for lesson 4 typically includes a list of problems with their corresponding equivalent fractions, but you would need to refer to the specific educational resource or textbook for the exact answers.

Can you give an example of equivalent fractions from lesson 4?

An example of equivalent fractions from lesson 4 might be $\frac{1}{3}$ and $\frac{2}{6}$, as both fractions represent the same portion of a whole.

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Unlock the secrets to solving equivalent fractions with our comprehensive guide to 'My Homework

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