Equivalent Fractions Worksheet

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Part 1: Building a Foundation

What is the definition of equivalent fractions?

Hint: Think about fractions that represent the same value.

- ◯ A) Fractions with the same numerator and denominator
- ◯ B) Fractions that represent the same part of a whole
- ◯ C) Fractions that have different values
- ◯ D) Fractions that cannot be simplified

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Which of the following are methods to identify equivalent fractions? (Select all that apply)

Hint: Consider mathematical operations that maintain the value of fractions.

- ☐ A) Cross-multiplication

- [ ] B) Adding the numerators
- [ ] C) Multiplying the numerator and denominator by the same number
- [ ] D) Subtractin the denominators

Which of the following are methods to identify equivalent fractions? (Select all that apply)

Hint: Consider the operations that can show equivalence.

- [ ] A) Cross-multiplication
- [ ] B) Adding the numerators
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Hint: Consider mathematical operations that maintain equality.

- [ ] A) Cross-multiplication
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Explain how you can determine if two fractions are equivalent using cross-multiplication.

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List two ways to create equivalent fractions from a given fraction.

Hint: Consider operations that involve the numerator and denominator.

1. Method 1

2. Method 2

Part 2: Comprehension and Application

If you simplify the fraction 8/12, what is the equivalent fraction in its simplest form?

Hint: Think about the greatest common divisor.

- ◯ A) 2/3
- ◯ B) 4/6
- ◯ C) 1/2
- ◯ D) 3/4

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Which of the following fractions are equivalent to 3/4? (Select all that apply)

Hint: Consider fractions that can be simplified to the same value.

- ☐ A) 6/8
- ☐ B) 9/12
- ☐ C) 12/16
- ☐ D) 15/20

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Describe the process of simplifying a fraction and why it is important.

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You have a recipe that requires 2/3 cup of sugar. If you only have a 1/3 cup measuring cup, how many times do you need to fill it to get the equivalent amount?

Hint: Think about how many 1/3 cups make up 2/3 cup.

- ◯ A) 1 time

- ◯ B) 2 times
- ◯ C) 3 times
- ◯ D) 4 times

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If you multiply the numerator and denominator of 5/6 by 2, which of the following fractions do you get? (Select all that apply)

Hint: Consider the result of multiplying both parts of the fraction.

- ☐ A) 10/12
- ☐ B) 5/6
- ☐ C) 20/24
- ☐ D) 15/18

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Create an equivalent fraction for 7/9 by multiplying both the numerator and denominator by the same number. Explain your steps.

Hint: Choose a number to multiply both parts of the fraction.

Create an equivalent fraction for 7/9 by multiplying both the numerator and denominator by the same number. Explain your steps.

Hint: Think about what number you want to multiply by.

Create an equivalent fraction for 7/9 by multiplying both the numerator and denominator by the same number. Explain your steps.

Hint: Think about what number you can multiply by.

Part 3: Analysis, Evaluation, and Creation

Which fraction is not equivalent to 1/2?

Hint: Consider the relationship between the numerators and denominators.

- ◯ A) 2/4
- ◯ B) 3/6
- ◯ C) 4/8
- ◯ D) 5/10

Which fraction is not equivalent to 1/2?

Hint: Consider the relationships between the fractions.

- ◯ A) 2/4
- ◯ B) 3/6
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- ◯ A) 2/4
- ◯ B) 3/6
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- ◯ D) 5/10

Analyze the fractions below and select those that are equivalent to 2/5. (Select all that apply)

Hint: Think about the relationships between the fractions.

- ☐ A) 4/10

- [ ] B) 6/15
- [ ] C) 8/20
- [ ] D) 10/25

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Analyze the fractions 9/12 and 3/4. Are they equivalent? Justify your answer using mathematical reasoning.

Hint: Think about simplifying both fractions.

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You are tasked with creating a visual model to represent the fraction 3/5. Which of the following could be part of your model? (Select all that apply)

Hint: Think about different ways to visually represent fractions.

- [ ] A) A pie chart divided into 5 equal parts with 3 shaded
- [ ] B) A number line with a point at 0.6
- [ ] C) A bar divided into 10 equal parts with 6 shaded
- [ ] D) A set of 5 objects with 3 highlighted

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Create a real-world scenario where understanding equivalent fractions would be necessary. Describe the scenario and explain how equivalent fractions would be used.

Hint: Think about situations involving sharing or dividing.

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