Compare Fractions Worksheet

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Part 1: Building a Foundation

What is the numerator in the fraction 3/4?

Hint: Remember, the numerator is the top part of the fraction.

- ◯ A) 3
- ◯ B) 4
- ◯ C) 7
- ◯ D) 1

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- ◯ C) 7
- ◯ D) 1

Which of the following are components of a fraction? (Select all that apply)

Hint: Think about the parts that make up a fraction.

- ☐ A) Numerator
- ☐ B) Denominator
- ☐ C) Quotient
- ☐ D) Dividend

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Explain what it means for two fractions to be equivalent.

Hint: Consider how fractions can represent the same value.

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List the symbols used to compare fractions and their meanings.

Hint: Think about the symbols like <, >, and =.

1. What does < mean?

2. What does > mean?

3. What does = mean?

Part 2: comprehension and Interpretation

When comparing fractions with the same denominator, what should you compare? (Select all that apply)

Hint: Think about what remains constant in these fractions.

- [ ] A) Numerators
- [ ] B) Denominators
- [ ] C) Whole numbers
- [ ] D) Decimal values

When comparing fractions with the same denominator, what should you compare? (Select all that apply)

Hint: Focus on the parts of the fractions that differ.

- [ ] A) Numerators
- [ ] B) Denominators
- [ ] C) Whole numbers
- [ ] D) Decimal values

Describe how you would use a number line to compare the fractions 1/3 and 2/5.

Hint: Consider the placement of each fraction on the number line.

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Part 3: Application and Analysis

Which method would you use to compare the fractions 3/7 and 2/5?

Hint: Think about the methods you have learned for comparing fractions.

- ◯ A) Common Denominator Method
- ◯ B) Cross-Multiplication Method
- ◯ C) Decimal Conversion
- ◯ D) Visual Representation

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- ◯ C) Decimal Conversion
- ◯ D) Visual Representation

You have two pieces of rope, one measuring 3/4 of a meter and the other 5/8 of a meter. Which methods can you use to determine which rope is longer? (Select all that apply)

Hint: Consider the methods you have learned for comparing fractions.

- ☐ A) Convert to decimals
- ☐ B) Use a number line
- ☐ C) Cross-multiply
- ☐ D) Compare numerators

You have two pieces of rope, one measuring 3/4 of a meter and the other 5/8 of a meter. Which methods can you use to determine which rope is longer? (Select all that apply)

Hint: Think about the different ways to compare lengths.

- [ ] A) Convert to decimals
- [ ] B) Use a number line
- [ ] C) Cross-multiply
- [ ] D) Compare numerators

Apply the cross-multiplication method to compare the fractions 5/6 and 7/9. Show your work.

Hint: Remember the steps of cross-multiplication.

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Hint: Set up the cross-multiplication and solve.

Part 4: Evaluation and Creation

If you convert the fractions 1/4 and 3/12 to have a common denominator, what is the new denominator?

Hint: Think about the least common multiple of the denominators.

- ◯ A) 4
- ◯ B) 12
- ◯ C) 24
- ◯ D) 48

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Analyze the fractions 2/3 and 4/6. Are they equivalent? Why or why not? (Select all that apply)

Hint: Consider simplifying the fractions to see if they are the same.

- ☐ A) Yes, because they have the same value when simplified.
- ☐ B) No, because their numerators are different.
- ☐ C) Yes, because they represent the same part of a whole.
- ☐ D) No, because their denominators are different.

Analyze the fractions 2/3 and 4/6. Are they equivalent? Why or why not? (Select all that apply)

Hint: Consider the values of the fractions when simplified.

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Break down the process of converting the fractions 5/8 and 3/4 to decimals and compare them.

Hint: Think about how to divide the numerator by the denominator.

Break down the process of converting the fractions 5/8 and 3/4 to decimals and compare them.

Hint: Think about how to convert each fraction to a decimal.

Which fraction is greater: 7/10 or 3/5? Use any method to justify your answer.

Hint: Consider converting both fractions to a common denominator or decimals.

- ◯ A) 7/10
- ◯ B) 3/5
- ◯ C) They are equal
- ◯ D) Cannot be determined

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Evaluate the following scenario: You have two recipes, one requires 2/3 cup of sugar and the other 3/4 cup. Which of the following statements are true? (Select all that apply)

Hint: Think about the amounts of sugar required in each recipe.

- ☐ A) The second recipe requires more sugar.
- ☐ B) The first recipe requires more sugar.
- ☐ C) You can use the cross-multiplication method to compare.
- ☐ D) You can convert the fractions to decimals to compare.

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Create a real-world problem involving the comparison of fractions and solve it using one of the methods discussed. Explain your reasoning.

Hint: Think about a scenario where fractions are used in daily life.

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Hint: Think about a scenario where you need to compare quantities.