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Fraction Number Line Worksheets

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Part 1: Building a Foundation

What is the numerator in the fraction 3/4?

Hint: Identify the top number in the fraction.

◯ 3
◯ 4
◯ 7
◯ 1

What is the numerator in the fraction 3/4?

Hint: Recall the definition of a numerator.

◯ 3
◯ 4
◯ 7
◯ 1

Which of the following are components of a fraction?

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

☐ Numerator
☐ Denominator
☐ Decimal
☐ Whole number

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

☐ Numerator

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☐ Denominator
☐ Decimal
☐ Whole number

Explain what a number line is and why it is useful in mathematics.

Hint: Consider how a number line represents numbers visually.

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List the steps to place a fraction on a number line.

Hint: Think about dividing the line into equal parts.

1. Step 1

2. Step 2

3. Step 3

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Part 2: Comprehension and Application

If a fraction is placed between 0 and 1 on a number line, what can you infer about its value?

Hint: Consider the definition of proper and improper fractions.

○ It is greater than 1
○ It is less than 0
○ It is a proper fraction
○ It is an improper fraction

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Which of the following fractions are equivalent to 1/2?

Hint: Think about fractions that represent the same value.

☐ 2/4
☐ 3/6
☐ 4/8
☐ 5/10

Which of the following fractions are equivalent to 1/2?

Hint: Think about how to find equivalent fractions.

☐ 2/4
☐ 3/6
☐ 4/8
☐ 5/10

Describe how you would use a number line to compare the fractions 2/3 and 3/4.

Hint: Think about the placement of each fraction on the line.

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Describe how you would use a number line to compare the fractions 2/3 and 3/4.

Hint: Think about the placement of each fraction on the line.

You have a number line from 0 to 1 divided into 8 equal parts. Where would you place the fraction 5/8?

Hint: Consider the divisions of the number line.

○ Between 0 and 1/8
○ Between 1/2 and 5/8
○ At 5/8
○ At 7/8

You have a number line from 0 to 1 divided into 8 equal parts. Where would you place the fraction 5/8?

Hint: Consider how to divide the number line into eighths.

○ Between 0 and 1/8
○ Between 1/2 and 5/8
○ At 5/8
○ At 7/8

Convert the mixed number 1 3/4 into an improper fraction and explain how you would place it on a number line.

Hint: Think about the conversion process and placement.

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[text input box]

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Hint: Think about the conversion process and placement.

[text input box]

Part 3: Analysis, Evaluation, and Creation

What is the result of adding 1/4 and 3/8 on a number line?

Hint: Consider the sum of the fractions.

○ 5/8
○ 7/8
○ 1/2
○ 1

What is the result of adding 1/4 and 3/8 on a number line?

Hint: Consider how to add fractions with different denominators.

○ 5/8
○ 7/8
○ 1/2
○ 1

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Analyze the following fractions and select those that are equivalent to 3/9:

Hint: Think about simplifying the fractions.

☐ 1/3
☐ 2/6
☐ 4/12
☐ 5/15

Analyze the following fractions and select those that are equivalent to 3/9:

Hint: Think about simplifying fractions.

☐ 1/3
☐ 2/6
☐ 4/12
☐ 5/15

Explain how you would determine if two fractions are equivalent using a number line.

Hint: Consider the visual representation of fractions.

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Evaluate the following statements and select those that are true about improper fractions:

Hint: Consider the characteristics of improper fractions.

☐ They are always greater than 1
☐ They can be converted into mixed numbers
☐ They are less than their equivalent mixed numbers
☐ They have numerators larger than denominators

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Hint: Consider the characteristics of improper fractions.

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Create a real-world scenario where understanding fractions on a number line would be beneficial. Describe the scenario and explain how you would use the number line to solve a problem.

Hint: Think about practical applications of fractions.

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