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Fractions And Decimals Worksheets

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Part 1: Foundational Knowledge

What is the denominator in the fraction 5/8?

Hint: Recall the definition of a fraction.

○ 5
○ 8
○ 13
○ 3

Which of the following are proper fractions?

Hint: A proper fraction has a numerator that is less than its denominator.

☐ 7/9
☐ 11/10
☐ 3/4
☐ 5/5

Explain the difference between a terminating decimal and a repeating decimal.

Hint: Consider how each type of decimal behaves.

List the components of a fraction and define each.

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

1. What is the numerator?

[   ]

2. What is the denominator?

[   ]

Which of the following fractions is equivalent to 0.25?

Hint: Convert 0.25 to a fraction.

○ 1/4
○ 1/2
○ 3/4
○ 2/5

Part 2: Application and Analysis

If you have a pizza cut into 8 slices and you eat 3 slices, what fraction of the pizza have you eaten?

Hint: Think about the number of slices eaten compared to the total slices.

○ 3/8
○ 5/8
○ 1/2
○ 3/5

Which of the following decimals can be converted into the fraction 3/5?

Hint: Convert each decimal to a fraction to check.

☐ 0.6
☐ 0.75
☐ 0.8
☐ 0.5

A recipe requires 2/3 cup of sugar. If you want to make half of the recipe, how much sugar will you need? Show your work.

Hint: Consider how to divide the fraction by 2.

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Which operation would you use to find the reciprocal of a fraction?

Hint: Think about what reciprocal means.

○ Addition
○ Subtraction
○ Multiplication
○ Division

Identify the correct steps to add the fractions 1/4 and 3/8.

Hint: Consider the process of adding fractions.

☐ Find a common denominator
☐ Add the numerators
☐ Simplify the result
☐ Multiply the fractions

Analyze the process of converting the repeating decimal 0.666... into a fraction. Explain each step.

Hint: Think about how to express the repeating decimal as a fraction.

Part 3: Evaluation and Creation

Which of the following best evaluates the accuracy of converting 0.75 to a fraction?

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Hint: Consider the decimal and its fraction equivalent.

○ 1/2
○ 3/4
○ 2/3
○ 4/5

Evaluate the following statements about fractions and decimals:

Hint: Consider the properties of fractions and decimals.

☐ Every fraction can be expressed as a decimal.
☐ Every decimal can be expressed as a fraction.
☐ Some fractions cannot be simplified.
☐ Some decimals are irrational numbers.

Create a real-world problem involving fractions and decimals, and solve it. Explain your reasoning and steps.

Hint: Think about a scenario where you would use fractions and decimals.

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