

## Fractions To Decimals Worksheet Answer Key PDF

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### Part 1: Building a Foundation

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#### What is a fraction?

undefined. A) A whole number

**undefined. B) A number with a numerator and a denominator ✓**

undefined. C) A decimal number

undefined. D) A negative number

A fraction is a number that consists of a numerator and a denominator.

#### What is a fraction?

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undefined. C) A decimal number

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A fraction consists of a numerator and a denominator.

#### What is a fraction?

undefined. A) A whole number

**undefined. B) A number with a numerator and a denominator ✓**

undefined. C) A decimal number

undefined. D) A negative number

A fraction is a number that represents a part of a whole.

#### Which of the following are methods to convert fractions to decimals?

undefined. **A) Multiplication ✓**

undefined. **B) Division ✓**

undefined. C) Addition

undefined. D) Simplification

The methods to convert fractions to decimals include division and multiplication.

**Which of the following are methods to convert fractions to decimals?**

undefined. **A) Multiplication ✓**

undefined. **B) Division ✓**

undefined. C) Addition

undefined. D) Simplification

The main methods to convert fractions to decimals are multiplication and division.

**Which of the following are methods to convert fractions to decimals?**

undefined. A) Multiplication

undefined. **B) Division ✓**

undefined. C) Addition

undefined. D) Simplification

The methods include multiplication and division.

**Explain what a repeating decimal is and provide an example.**

**A repeating decimal is a decimal fraction that eventually repeats a sequence of digits. An example is  $\frac{1}{3} = 0.333\dots$**

**Explain what a repeating decimal is and provide an example.**

**A repeating decimal is a decimal that has a digit or group of digits that repeat infinitely.**

**Explain what a repeating decimal is and provide an example.**

**A repeating decimal is a decimal fraction that eventually repeats a digit or group of digits.**

**List two characteristics of terminating decimals.**

1. Characteristic 1

**They have a finite number of decimal places.**

2. Characteristic 2

**They do not have repeating digits.**

Terminating decimals have a finite number of digits after the decimal point and do not repeat.

**Part 2: Comprehension and Application**

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**Which fraction converts to a terminating decimal?**undefined. A)  $\frac{1}{3}$ **undefined. B)  $\frac{1}{4}$  ✓**undefined. C)  $\frac{2}{3}$ undefined. D)  $\frac{5}{6}$ The fraction  $\frac{1}{4}$  converts to a terminating decimal.**Which fraction converts to a terminating decimal?**undefined. A)  $\frac{1}{3}$ **undefined. B)  $\frac{1}{4}$  ✓**undefined. C)  $\frac{2}{3}$ undefined. D)  $\frac{5}{6}$ The fraction  $\frac{1}{4}$  converts to a terminating decimal.**Which fraction converts to a terminating decimal?**undefined. A)  $\frac{1}{3}$ **undefined. B)  $\frac{1}{4}$  ✓**undefined. C)  $\frac{2}{3}$ undefined. D)  $\frac{5}{6}$ 

A fraction converts to a terminating decimal if its denominator has only the prime factors 2 and/or 5.

**Why is it important to simplify fractions before converting them to decimals?**

**undefined. A) It makes division easier ✓**

undefined. B) It changes the value of the fraction

**undefined. C) It helps in identifying repeating decimals ✓**

**undefined. D) It reduces calculation errors ✓**

Simplifying fractions makes division easier and reduces calculation errors.

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Simplifying fractions can make division easier and reduce calculation errors.

**Why is it important to simplify fractions before converting them to decimals?**

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**undefined. C) It helps in identifying repeating decimals ✓**

**undefined. D) It reduces calculation errors ✓**

Simplifying fractions can make the conversion process easier and reduce calculation errors.

**Describe how you would convert the fraction  $\frac{3}{8}$  into a decimal.**

**To convert  $\frac{3}{8}$  into a decimal, divide 3 by 8, which equals 0.375.**

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**Describe how you would convert the fraction  $\frac{3}{8}$  into a decimal.**

To convert  $\frac{3}{8}$  into a decimal, divide 3 by 8.

Convert the fraction  $\frac{5}{8}$  into a decimal.

undefined. A) 0.625 ✓

undefined. B) 0.75

undefined. C) 0.5

undefined. D) 0.8

The fraction  $\frac{5}{8}$  converts to the decimal 0.625.

Convert the fraction  $\frac{5}{8}$  into a decimal.

undefined. A) 0.625 ✓

undefined. B) 0.75

undefined. C) 0.5

undefined. D) 0.8

The fraction  $\frac{5}{8}$  converts to 0.625.

Convert the fraction  $\frac{5}{8}$  into a decimal.

undefined. A) 0.625 ✓

undefined. B) 0.75

undefined. C) 0.5

undefined. D) 0.8

The decimal equivalent of  $\frac{5}{8}$  is 0.625.

Which of the following fractions will result in a repeating decimal?

undefined. A)  $\frac{1}{2}$

undefined. B)  $\frac{1}{6}$  ✓

undefined. C)  $\frac{1}{5}$

undefined. D)  $\frac{1}{9}$  ✓

The fraction  $\frac{1}{6}$  results in a repeating decimal.

**Which of the following fractions will result in a repeating decimal?**

undefined. A)  $\frac{1}{2}$

**undefined. B)  $\frac{1}{6}$  ✓**

undefined. C)  $\frac{1}{5}$

**undefined. D)  $\frac{1}{9}$  ✓**

The fraction  $\frac{1}{6}$  results in a repeating decimal.

**Which of the following fractions will result in a repeating decimal?**

undefined. A)  $\frac{1}{2}$

**undefined. B)  $\frac{1}{6}$  ✓**

undefined. C)  $\frac{1}{5}$

**undefined. D)  $\frac{1}{9}$  ✓**

Fractions with denominators that have prime factors other than 2 or 5 will result in repeating decimals.

**Apply the division method to convert  $\frac{7}{10}$  into a decimal and explain each step.**

**To convert  $\frac{7}{10}$  into a decimal, divide 7 by 10, which equals 0.7.**

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**To convert  $\frac{7}{10}$  into a decimal, divide 7 by 10, which equals 0.7.**

### **Part 3: Analysis, Evaluation, and Creation**

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**Analyze the fraction  $\frac{4}{9}$ . What type of decimal does it convert to?**

undefined. A) Terminating

**undefined. B) Repeating ✓**

undefined. C) Whole number

undefined. D) Improper fraction

The fraction  $\frac{4}{9}$  converts to a repeating decimal.

**Analyze the fraction  $\frac{4}{9}$ . What type of decimal does it convert to?**

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The fraction  $\frac{4}{9}$  converts to a repeating decimal.

**Analyze the fraction  $\frac{4}{9}$ . What type of decimal does it convert to?**

undefined. A) Terminating

**undefined. B) Repeating ✓**

undefined. C) Whole number

undefined. D) Improper fraction

The fraction  $\frac{4}{9}$  converts to a repeating decimal.

**When converting fractions to decimals, which factors affect whether the decimal is repeating or terminating?**

undefined. A) The numerator

**undefined. B) The denominator ✓**

**undefined. C) The presence of prime factors 2 or 5 in the denominator ✓**

undefined. D) The size of the fraction

The presence of prime factors 2 or 5 in the denominator affects whether the decimal is repeating or terminating.

**When converting fractions to decimals, which factors affect whether the decimal is repeating or terminating?**

undefined. A) The numerator

**undefined. B) The denominator ✓**

**undefined. C) The presence of prime factors 2 or 5 in the denominator ✓**

undefined. D) The size of the fraction

The presence of prime factors 2 or 5 in the denominator affects the decimal type.

**When converting fractions to decimals, which factors affect whether the decimal is repeating or terminating?**

undefined. A) The numerator

**undefined. B) The denominator ✓**

**undefined. C) The presence of prime factors 2 or 5 in the denominator ✓**

undefined. D) The size of the fraction

The presence of prime factors 2 or 5 in the denominator affects whether the decimal is repeating or terminating.

**Analyze the fraction  $11/12$  and determine if it results in a repeating or terminating decimal. Explain your reasoning.**

**The fraction  $11/12$  results in a terminating decimal because its denominator has only the prime factors 2 and 3.**

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**The fraction  $11/12$  results in a terminating decimal.**

**Analyze the fraction  $11/12$  and determine if it results in a repeating or terminating decimal. Explain your reasoning.**

**The fraction  $11/12$  results in a terminating decimal because its denominator has the prime factors 2 and 3.**

**Evaluate the statement: "All fractions with a denominator of 10 convert to terminating decimals."**

**undefined. A) True ✓**

undefined. B) False

undefined. C) N/A

undefined. D) N/A



The statement is true; all fractions with a denominator of 10 convert to terminating decimals.

**Evaluate which of the following statements are true about converting fractions to decimals.**

**undefined. A) Fractions with denominators that are powers of 2 or 5 always convert to terminating decimals. ✓**

undefined. B) All fractions convert to repeating decimals.

undefined. C) Simplifying a fraction can change its decimal form.

**undefined. D) Fractions with prime denominators other than 2 or 5 result in repeating decimals. ✓**

The true statements are about the relationship between the denominator and the decimal result.

**Evaluate which of the following statements are true about converting fractions to decimals.**

**undefined. A) Fractions with denominators that are powers of 2 or 5 always convert to terminating decimals. ✓**

undefined. B) All fractions convert to repeating decimals.

**undefined. C) Simplifying a fraction can change its decimal form. ✓**

**undefined. D) Fractions with prime denominators other than 2 or 5 result in repeating decimals. ✓**

The true statements are A, C, and D.

**Evaluate which of the following statements are true about converting fractions to decimals.**

**undefined. A) Fractions with denominators that are powers of 2 or 5 always convert to terminating decimals. ✓**

undefined. B) All fractions convert to repeating decimals.

undefined. C) Simplifying a fraction can change its decimal form.

**undefined. D) Fractions with prime denominators other than 2 or 5 result in repeating decimals. ✓**

Only statements A and D are true regarding fraction conversions.

**Create a real-world problem that involves converting a fraction to a decimal, and solve it.**

**An example could involve measuring ingredients in a recipe.**

**Create a real-world problem that involves converting a fraction to a decimal, and solve it.**

**An example could be converting  $\frac{1}{4}$  of a pizza into a decimal to find out how much is left. The answer is 0.25.**

**Create a real-world problem that involves converting a fraction to a decimal, and solve it.**

**An example could involve measuring ingredients in a recipe.**