

Module 4 Operations With Fractions Quiz B Answers Answer Key PDF

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What is the reciprocal of 5/7?

- A. 7/5 √
- B. 5/7
- C. 1/5
- D. 1/7

Which of the following are equivalent to the fraction 3/4?

- A. 6/8 √
- B. 9/12 √
- C. 12/16 ✓
- D. 15/20

Explain the process of converting an improper fraction to a mixed number. Provide an example with your explanation.

To convert the improper fraction 7/4 to a mixed number, divide 7 by 4, which equals 1 with a remainder of 3. Therefore, the mixed number is 1 3/4.

What is the least common denominator of 1/4 and 1/6?

- A. 12 √
- B. 24
- C. 6
- D. 8

Which of the following operations require finding a common denominator?

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A. Adding fractions ✓

- B. Subtractting fractions ✓
- C. Multiplying fractions
- D. Dividing fractions

Describe how you would solve a word problem involving the division of fractions. Use an example to illustrate your explanation.

To solve a word problem involving the division of fractions, first convert the division into multiplication by taking the reciprocal of the second fraction. For example, if the problem is 'How many 1/4 cups are in 2 cups?', you would calculate $2 \div (1/4)$ which is the same as $2 \times (4/1) = 8$. Thus, there are 8 quarter cups in 2 cups.

What is the product of 2/3 and 3/4?

- A. 1/2
- B. 1/4
- C. 1
- D. 3/8

Which of the following fractions are greater than 1/2?

- A. 3/5 √
- B. 2/3 √
- C. 1/3
- D. 5/10

Explain the relationship between fractions and decimals. How would you convert a fraction to a decimal? Provide an example.

To convert a fraction to a decimal, divide the numerator by the denominator. For example, to convert the fraction 3/4 to a decimal, you would calculate $3 \div 4$, which equals 0.75.

Which fraction is equivalent to 0.75?

- A. 3/4 √
- B. 1/2
- C. 2/3

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D. 5/8

Which of the following are correct steps to convert 7/4 into a mixed number?

- A. Divide 7 by 4 ✓
- B. The quotient is the whole number part \checkmark
- C. The remainder is the new numerator \checkmark
- D. Keep the original denominator \checkmark

Discuss the importance of simplifying fractions in mathematical operations. Provide examples to support your explanation.

For example, simplifying the fraction 8/12 to 2/3 before adding it to another fraction can make the addition process simpler and reduce the chance of errors.

What is the result of subtractinging 5/8 from 3/4?

- A. 1/8 √
- B. 1/4
- C. 3/8
- D. 1/2

Which of the following are correct when dividing fractions?

- A. Multiply by the reciprocal of the divisor \checkmark
- B. Find a common denominator
- C. Invert the second fraction \checkmark
- D. Simplify the result \checkmark

How can you use a number line to compare fractions? Provide a detailed explanation with an example.

To compare fractions using a number line, first identify a common denominator if necessary, then mark each fraction on the line according to its value. For example, to compare 1/4 and 3/8, convert 1/4 to 2/8, and then place both fractions on the number line to see that 3/8 is greater than 1/4.

What is the decimal equivalent of 1/5?

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A. 0.2 ✓

- B. 0.5
- C. 0.25
- D. 0.75

Which of the following fractions are in simplest form?

- A. 4/8
- B. 3/5 √
- C. 10/15
- D. 7/9 √

Describe a strategy for solving a complex fraction problem involving multiple operations. Use an example to illustrate your strategy.

To solve the complex fraction (1/2 + 1/3) / (1/4 - 1/6), first simplify the numerator: 1/2 + 1/3 = 3/6 + 2/6 = 5/6. Then simplify the denominator: 1/4 - 1/6 = 3/12 - 2/12 = 1/12. Now, divide the simplified numerator by the simplified denominator: $(5/6) \div (1/12) = (5/6) \ast (12/1) = 10$. The final answer is 10.

What is the sum of 1/4 and 2/5?

- A. 9/20
- B. 7/20
- C. 13/20 ✓
- D. 3/5

Which of the following are true about mixed numbers?

A. They can be converted to improper fractions \checkmark

- B. They are always greater than 1
- C. They consist of a whole number and a fraction \checkmark
- D. They can be used in multiplication without conversion