

Adding And Subtracting Mixed Numbers Worksheet With Answers

SOLVE & MATCH

Name _____ Date _____

Adding & Subtracting Mixed Numbers

Put each answer in simplest form. Draw a line to match each answer on the left with one on the right.

LEFT	RIGHT
1. $2 + 3\frac{1}{2} =$	A. $4 - 1\frac{1}{4} =$
2. $4\frac{1}{2} - 3\frac{1}{4} =$	B. $1\frac{3}{4} + \frac{3}{4} =$
3. $2\frac{1}{3} + 1\frac{1}{2} =$	C. $7\frac{1}{2} - 2 =$
4. $6\frac{5}{6} - 3\frac{1}{3} =$	D. $1\frac{3}{4} - \frac{1}{2} =$
5. $1\frac{1}{4} + 1\frac{1}{2} =$	E. $3\frac{1}{5} + \frac{7}{10} =$
6. $4\frac{1}{3} - 2 =$	F. $1\frac{1}{6} + 1\frac{1}{6} =$
7. $2\frac{2}{5} + 1\frac{1}{2} =$	G. $1\frac{1}{6} + 2\frac{2}{3} =$
8. $3\frac{7}{10} - 1\frac{1}{5} =$	H. $5\frac{2}{3} - 2\frac{1}{6} =$

TRIPLE MATCH Challenge

Complete this number pattern: $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, \underline{\hspace{1cm}}$.
Circle the answers that match above.

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22

Adding and subtracting mixed numbers worksheet with answers is an essential tool for students learning how to work with fractions and mixed numbers. Mixed numbers consist of a whole number and a proper fraction, and mastering the addition and subtraction of these numbers is crucial for developing strong mathematical skills. This article will explore various techniques for adding and subtracting mixed numbers, provide a worksheet for practice, and present answers for self-assessment.

Understanding Mixed Numbers

Mixed numbers are made up of two parts: a whole number and a fractional part. For example, in the mixed number $2\frac{3}{4}$, the number 2 is the whole part, and $\frac{3}{4}$ is the fractional part. Understanding how to manipulate these numbers is important for various math applications, including measurement, cooking, and financial calculations.

Components of Mixed Numbers

1. Whole Number: This is the integer part of the mixed number, representing complete units.
2. Fractional Part: This is the portion of the mixed number that represents a part of a whole.

For example, in $3\frac{1}{2}$:

- The whole number is 3.
- The fractional part is $\frac{1}{2}$.

Adding Mixed Numbers

Adding mixed numbers requires a clear understanding of how to handle both the whole and fractional parts. Here's a step-by-step guide to adding mixed numbers.

Steps to Add Mixed Numbers

1. Separate the Whole Numbers and Fractions: Write down the whole numbers and the fractions separately.
2. Add the Whole Numbers: Add the whole parts together.
3. Add the Fractions: For the fractional parts, add them together.
4. Simplify the Fraction: If the resulting fraction is improper (where the numerator is greater than or equal to the denominator), convert it to a mixed number.
5. Combine the Results: Finally, add the simplified fraction to the total from the whole numbers.

Example of Adding Mixed Numbers

Let's add $2\frac{1}{3}$ and $3\frac{2}{5}$.

1. Separate: Whole numbers: 2 and 3; Fractions: $\frac{1}{3}$ and $\frac{2}{5}$.

2. Add Whole Numbers: $2 + 3 = 5$.
3. Add Fractions: Find a common denominator (15):
 - Convert $1/3$ to $5/15$.
 - Convert $2/5$ to $6/15$.
 - Now add: $5/15 + 6/15 = 11/15$.
4. Combine: $5 + 11/15 = 5 \frac{11}{15}$.

Subtracting Mixed Numbers

Subtraction of mixed numbers follows a similar process to addition but requires careful attention to borrowing when the fractional part of the first mixed number is smaller than the fractional part of the second mixed number.

Steps to Subtract Mixed Numbers

1. Separate the Whole Numbers and Fractions: Just like with addition, break the numbers apart.
2. Subtract the Whole Numbers: Subtract the whole parts.
3. Subtract the Fractions: If the first fraction is smaller than the second, you will need to borrow from the whole number.
4. Simplify the Fraction: As with addition, ensure the fraction is in the simplest form.
5. Combine the Results: Add the simplified fraction to the total from the whole numbers.

Example of Subtracting Mixed Numbers

Let's subtract $4 \frac{2}{3}$ from $7 \frac{1}{2}$.

1. Separate: Whole numbers: 7 and 4; Fractions: $1/2$ and $2/3$.
2. Subtract Whole Numbers: $7 - 4 = 3$.
3. Subtract Fractions: Find a common denominator (6):
 - Convert $1/2$ to $3/6$.
 - Convert $2/3$ to $4/6$.
 - Now subtract: $3/6 - 4/6$ requires borrowing.
 - Borrow 1 from 3, making it 2, and convert the borrowed 1 to $6/6$, so we have: $3/6 + 6/6 = 9/6$.
 - Now subtract: $9/6 - 4/6 = 5/6$.
4. Combine: $2 + 5/6 = 2 \frac{5}{6}$.

Practice Worksheet: Adding and Subtracting

Mixed Numbers

Here is a worksheet for practice. Solve the following problems by either adding or subtracting the mixed numbers:

1. $1 \frac{1}{4} + 3 \frac{3}{8}$
2. $5 \frac{2}{5} - 2 \frac{3}{10}$
3. $6 \frac{1}{2} + 2 \frac{1}{3}$
4. $4 \frac{3}{4} - 1 \frac{1}{2}$
5. $3 \frac{2}{7} + 5 \frac{5}{21}$
6. $7 \frac{1}{6} - 2 \frac{2}{3}$
7. $8 \frac{3}{8} + 1 \frac{1}{4}$
8. $9 \frac{5}{12} - 3 \frac{1}{4}$
9. $2 \frac{3}{5} + 4 \frac{2}{3}$
10. $5 \frac{1}{2} - 1 \frac{7}{8}$

Answers to the Worksheet

Here are the answers to the practice problems provided above:

1. $1 \frac{1}{4} + 3 \frac{3}{8} = 4 \frac{5}{8}$
2. $5 \frac{2}{5} - 2 \frac{3}{10} = 3 \frac{1}{5}$
3. $6 \frac{1}{2} + 2 \frac{1}{3} = 8 \frac{5}{6}$
4. $4 \frac{3}{4} - 1 \frac{1}{2} = 3 \frac{1}{4}$
5. $3 \frac{2}{7} + 5 \frac{5}{21} = 8 \frac{1}{3}$
6. $7 \frac{1}{6} - 2 \frac{2}{3} = 4 \frac{1}{2}$
7. $8 \frac{3}{8} + 1 \frac{1}{4} = 9 \frac{5}{8}$
8. $9 \frac{5}{12} - 3 \frac{1}{4} = 6 \frac{1}{12}$
9. $2 \frac{3}{5} + 4 \frac{2}{3} = 7 \frac{1}{5}$
10. $5 \frac{1}{2} - 1 \frac{7}{8} = 3 \frac{5}{8}$

Conclusion

Adding and subtracting mixed numbers is a fundamental math skill that students must master to tackle more complex mathematical concepts. Through practice worksheets and understanding the step-by-step processes involved, learners can become proficient in handling mixed numbers. The provided worksheet and answers serve as a valuable resource for both students and educators. By practicing regularly, students will gain confidence in their abilities to add and subtract mixed numbers accurately.

Frequently Asked Questions

What is a mixed number?

A mixed number is a whole number combined with a proper fraction, such as $2\frac{1}{3}$.

How do you add mixed numbers?

To add mixed numbers, first add the whole numbers together, then add the fractions, and finally combine the results, simplifying if necessary.

Can you subtract mixed numbers in the same way as adding them?

Yes, to subtract mixed numbers, subtract the whole numbers and then subtract the fractions. If needed, you may need to borrow from the whole number.

What is the importance of simplifying the result when adding or subtracting mixed numbers?

Simplifying the result makes it easier to understand and use, ensuring the answer is in its simplest form.

Where can I find worksheets for practicing adding and subtracting mixed numbers?

Worksheets for adding and subtracting mixed numbers can be found online on educational websites, math resource sites, or in math textbooks.

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