

Adding and Subtracting Mixed Numbers

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

A **mixed number** like $1\frac{3}{4}$ is a whole number plus a fraction. One reliable way to add or subtract them is to first turn each into an **improper fraction**: multiply the whole number by the denominator, add the numerator, and keep the denominator. So $1\frac{3}{4} = \frac{7}{4}$. Then use a **common denominator**, add or subtract the numerators, and **convert back** to a mixed number at the end. This method avoids tricky regrouping and works every time.

◇ **Example:** Add $1\frac{3}{4} + 1\frac{1}{6}$.

⇒ Change each mixed number to an improper fraction. For $1\frac{3}{4}$: $1 \times 4 + 3 = 7$, so it is $\frac{7}{4}$. For $1\frac{1}{6}$: $1 \times 6 + 1 = 7$, so it is $\frac{7}{6}$. The common denominator of 4 and 6 is 12: $\frac{7}{4} = \frac{21}{12}$ and $\frac{7}{6} = \frac{14}{12}$. Add: $\frac{21}{12} + \frac{14}{12} = \frac{35}{12}$. Convert back: $35 \div 12 = 2$ remainder 11, so the answer is $2\frac{11}{12}$.

Answer: $2\frac{11}{12}$

PRACTICE

Add or subtract. Write each answer as a mixed number in simplest form.

1. $1\frac{1}{2} + 2\frac{1}{4}$ _____

2. $2\frac{1}{3} + 1\frac{1}{3}$ _____

3. $3\frac{1}{5} + 1\frac{2}{5}$ _____

4. $2\frac{1}{2} + 1\frac{1}{3}$ _____

5. $1\frac{1}{4} + 2\frac{1}{6}$ _____

6. $3\frac{2}{3} + 1\frac{1}{4}$ _____

7. $1\frac{3}{4} + 1\frac{1}{6}$ _____

8. $2\frac{3}{5} + 2\frac{3}{4}$ _____

9. $4\frac{1}{2} + 1\frac{5}{6}$ _____

10. $3\frac{2}{3} + 2\frac{1}{4}$ _____

11. $3\frac{3}{4} - 1\frac{1}{4}$ _____

12. $4\frac{2}{3} - 2\frac{1}{3}$ _____

13. $5\frac{3}{5} - 1\frac{1}{5}$ _____

14. $3\frac{1}{2} - 1\frac{1}{3}$ _____

15. $4\frac{3}{4} - 2\frac{1}{6}$ _____

16. $3\frac{1}{4} - 1\frac{5}{6}$ _____

17. $3\frac{2}{5} - 1\frac{1}{10}$ _____

18. $5\frac{1}{6} - 2\frac{3}{4}$ _____

19. $6\frac{1}{3} - 2\frac{7}{8}$ _____

20. $4\frac{1}{2} - 1\frac{5}{8}$ _____

◆ Word Problems

21. Jada jogged $2\frac{1}{2}$ miles and then walked $1\frac{1}{3}$ miles. How far did she travel in all? _____

22. A board is $4\frac{3}{4}$ feet long. A piece $2\frac{1}{6}$ feet long is cut off. How much board is left? _____

23. A baker used $1\frac{3}{4}$ cups of flour for bread and $1\frac{1}{6}$ cups for muffins. How much flour was used? _____

24. A pitcher holds $6\frac{1}{3}$ cups of juice. After serving, $2\frac{7}{8}$ cups remain poured out. How much juice is still in the pitcher? _____



Answer Keys

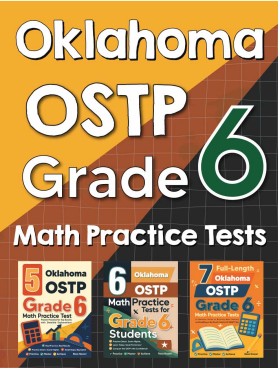
- | | |
|---|--|
| <ol style="list-style-type: none"> 1. $3\frac{3}{4}$ 2. $3\frac{2}{3}$ 3. $4\frac{3}{5}$ 4. $3\frac{5}{6}$ 5. $3\frac{5}{12}$ 6. $4\frac{11}{12}$ 7. $2\frac{11}{12}$ 8. $5\frac{7}{20}$ 9. $6\frac{1}{3}$ 10. $5\frac{11}{12}$ 11. $2\frac{1}{2}$ 12. $2\frac{1}{3}$ | <ol style="list-style-type: none"> 13. $4\frac{2}{5}$ 14. $2\frac{1}{6}$ 15. $2\frac{7}{12}$ 16. $1\frac{5}{12}$ 17. $2\frac{3}{10}$ 18. $2\frac{5}{12}$ 19. $3\frac{11}{24}$ 20. $2\frac{7}{8}$ 21. $3\frac{5}{6}$ miles 22. $2\frac{7}{12}$ feet 23. $2\frac{11}{12}$ cups 24. $3\frac{11}{24}$ cups |
|---|--|

Step-by-Step Explanations

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Add wholes $1 + 2 = 3$; add fractions $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$. 2. Wholes $2 + 1 = 3$; fractions $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$. 3. Wholes $3 + 1 = 4$; fractions $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$. 4. Common denominator 6: $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$; wholes $2 + 1 = 3$. 5. Common denominator 12: $\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$; wholes $1 + 2 = 3$. 6. Common denominator 12: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$; wholes $3 + 1 = 4$. 7. Improper: $\frac{7}{4} + \frac{7}{6} = \frac{21}{12} + \frac{14}{12} = \frac{35}{12} = 2\frac{11}{12}$. 8. Improper: $\frac{13}{5} + \frac{11}{4} = \frac{52}{20} + \frac{55}{20} = \frac{107}{20} = 5\frac{7}{20}$. 9. Common denominator 6: $\frac{3}{6} + \frac{5}{6} = \frac{8}{6} = 1\frac{1}{3}$; wholes $4 + 1 + 1 = 6$, leaving $6\frac{1}{3}$. 10. Improper: $\frac{11}{3} + \frac{9}{4} = \frac{44}{12} + \frac{27}{12} = \frac{71}{12} = 5\frac{11}{12}$. 11. Wholes $3 - 1 = 2$; fractions $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$. 12. Wholes $4 - 2 = 2$; fractions $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$. | <ol style="list-style-type: none"> 13. Wholes $5 - 1 = 4$; fractions $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$. 14. Common denominator 6: $\frac{3}{6} - \frac{2}{6} = \frac{1}{6}$; wholes $3 - 1 = 2$. 15. Common denominator 12: $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$; wholes $4 - 2 = 2$. 16. Improper: $\frac{13}{4} - \frac{11}{6} = \frac{39}{12} - \frac{22}{12} = \frac{17}{12} = 1\frac{5}{12}$. 17. Improper: $\frac{17}{5} - \frac{11}{10} = \frac{34}{10} - \frac{11}{10} = \frac{23}{10} = 2\frac{3}{10}$. 18. Improper: $\frac{31}{6} - \frac{11}{4} = \frac{62}{12} - \frac{33}{12} = \frac{29}{12} = 2\frac{5}{12}$. 19. Improper: $\frac{19}{3} - \frac{23}{8} = \frac{152}{24} - \frac{69}{24} = \frac{83}{24} = 3\frac{11}{24}$. 20. Improper: $\frac{9}{2} - \frac{13}{8} = \frac{36}{8} - \frac{13}{8} = \frac{23}{8} = 2\frac{7}{8}$. 21. Common denominator 6: $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$; wholes $2 + 1 = 3$, giving $3\frac{5}{6}$ miles. 22. Common denominator 12: $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$; wholes $4 - 2 = 2$, giving $2\frac{7}{12}$ feet. 23. Improper: $\frac{7}{4} + \frac{7}{6} = \frac{35}{12} = 2\frac{11}{12}$ cups. 24. Improper: $\frac{19}{3} - \frac{23}{8} = \frac{83}{24} = 3\frac{11}{24}$ cups. |
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