

Adding and Subtracting Mixed Numbers

Name: _____ Date: _____ Score: _____ / 24

Quick Review

A **mixed number** has a whole-number part and a fraction part, like $2\frac{1}{3}$. To add or subtract mixed numbers with the **same denominator**, handle the two parts separately: add (or subtract) the **whole numbers**, then add (or subtract) the **fractions**. If the fractions add up to a whole or more, **regroup** — carry the extra whole over. If you cannot subtract the fraction part, **borrow** one whole and rewrite it as a fraction, such as turning $3\frac{1}{4}$ into $2\frac{5}{4}$. Always write the fraction part in **simplest form** at the end.

◇ **Example:** Add $2\frac{2}{5} + 1\frac{1}{5}$.
⇒ Start with the whole numbers: $2 + 1 = 3$. Next add the fraction parts, which are both fifths, so add the numerators: $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$. The fraction part is less than a whole, so there is nothing to regroup. Put the parts back together to get $3\frac{3}{5}$.

Answer: $3\frac{3}{5}$

PRACTICE

Add or subtract each pair of mixed numbers. Write each answer in simplest form.

- | | | | |
|------------------------------------|-------|-------------------------------------|-------|
| 1. $1\frac{1}{4} + 2\frac{1}{4}$ | _____ | 11. $3\frac{3}{4} - 1\frac{1}{4}$ | _____ |
| 2. $2\frac{1}{6} + 1\frac{2}{6}$ | _____ | 12. $4\frac{5}{6} - 2\frac{1}{6}$ | _____ |
| 3. $3\frac{2}{8} + 1\frac{3}{8}$ | _____ | 13. $5\frac{7}{8} - 1\frac{3}{8}$ | _____ |
| 4. $1\frac{3}{10} + 2\frac{4}{10}$ | _____ | 14. $3\frac{9}{10} - 1\frac{4}{10}$ | _____ |
| 5. $4\frac{1}{5} + 2\frac{3}{5}$ | _____ | 15. $6\frac{4}{5} - 3\frac{2}{5}$ | _____ |
| 6. $2\frac{1}{3} + 3\frac{1}{3}$ | _____ | 16. $4\frac{1}{4} - 1\frac{3}{4}$ | _____ |
| 7. $1\frac{5}{12} + 2\frac{4}{12}$ | _____ | 17. $5\frac{1}{6} - 2\frac{5}{6}$ | _____ |
| 8. $2\frac{3}{4} + 1\frac{3}{4}$ | _____ | 18. $3\frac{2}{8} - 1\frac{5}{8}$ | _____ |
| 9. $3\frac{5}{6} + 1\frac{5}{6}$ | _____ | 19. $4 - 1\frac{1}{3}$ | _____ |
| 10. $2\frac{7}{8} + 1\frac{5}{8}$ | _____ | 20. $5 - 2\frac{3}{8}$ | _____ |

Word Problems

21. On Saturday, the Park family hiked $2\frac{3}{8}$ miles. On Sunday they hiked $1\frac{2}{8}$ miles. How far did they hike over the weekend?

22. A baker had $5\frac{1}{4}$ cups of sugar and used $2\frac{3}{4}$ cups for a cake. How many cups of sugar are left? _____
23. Two ribbons measure $1\frac{5}{8}$ feet and $2\frac{5}{8}$ feet. What is their total length? _____
24. A water tank held 4 gallons. After watering the plants, $1\frac{3}{10}$ gallons had been used. How much water is still in the tank?



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