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

Answer Keys

1. $3\frac{1}{2}$
2. $3\frac{1}{2}$
3. $4\frac{5}{8}$
4. $3\frac{7}{10}$
5. $6\frac{4}{5}$
6. $5\frac{2}{3}$
7. $3\frac{3}{4}$
8. $4\frac{1}{2}$
9. $5\frac{2}{3}$
10. $4\frac{1}{2}$
11. $2\frac{1}{2}$
12. $2\frac{2}{3}$
13. $4\frac{1}{2}$
14. $2\frac{1}{2}$
15. $3\frac{2}{5}$
16. $2\frac{1}{2}$
17. $2\frac{1}{3}$
18. $1\frac{5}{8}$
19. $2\frac{2}{3}$
20. $2\frac{5}{8}$
21. $3\frac{5}{8}$ miles
22. $2\frac{1}{2}$ cups
23. $4\frac{2}{3}$ feet
24. $2\frac{7}{10}$ gallons

Step-by-Step Explanations

1. Wholes: $1+2=3$. Fractions: $\frac{1}{4}+\frac{1}{4}=\frac{2}{4}=\frac{1}{2}$.
2. Wholes: $2+1=3$. Fractions: $\frac{1}{6}+\frac{2}{6}=\frac{3}{6}=\frac{1}{2}$.
3. Wholes: $3+1=4$. Fractions: $\frac{2}{8}+\frac{3}{8}=\frac{5}{8}$.
4. Wholes: $1+2=3$. Fractions: $\frac{3}{10}+\frac{4}{10}=\frac{7}{10}$.
5. Wholes: $4+2=6$. Fractions: $\frac{1}{5}+\frac{3}{5}=\frac{4}{5}$.
6. Wholes: $2+3=5$. Fractions: $\frac{1}{3}+\frac{1}{3}=\frac{2}{3}$.
7. Wholes: $1+2=3$. Fractions: $\frac{5}{12}+\frac{4}{12}=\frac{9}{12}=\frac{3}{4}$.
8. Wholes: $2+1=3$. Fractions: $\frac{3}{4}+\frac{3}{4}=\frac{6}{4}=1\frac{1}{2}$, so regroup to $4\frac{1}{2}$.
9. Wholes: $3+1=4$. Fractions: $\frac{5}{6}+\frac{5}{6}=\frac{10}{6}=1\frac{4}{6}$, regroup to $5\frac{4}{6}=5\frac{2}{3}$.
10. Wholes: $2+1=3$. Fractions: $\frac{7}{8}+\frac{5}{8}=\frac{12}{8}=1\frac{4}{8}$, regroup to $4\frac{4}{8}=4\frac{1}{2}$.
11. Wholes: $3-1=2$. Fractions: $\frac{3}{4}-\frac{1}{4}=\frac{2}{4}=\frac{1}{2}$.
12. Wholes: $4-2=2$. Fractions: $\frac{5}{6}-\frac{1}{6}=\frac{4}{6}=\frac{2}{3}$.
13. Wholes: $5-1=4$. Fractions: $\frac{7}{8}-\frac{3}{8}=\frac{4}{8}=\frac{1}{2}$.
14. Wholes: $3-1=2$. Fractions: $\frac{9}{10}-\frac{4}{10}=\frac{5}{10}=\frac{1}{2}$.
15. Wholes: $6-3=3$. Fractions: $\frac{4}{5}-\frac{2}{5}=\frac{2}{5}$.
16. Borrow one whole: $4\frac{1}{4}=3\frac{5}{4}$. Then $3-1=2$ and $\frac{5}{4}-\frac{3}{4}=\frac{2}{4}=\frac{1}{2}$.
17. Borrow one whole: $5\frac{1}{6}=4\frac{7}{6}$. Then $4-2=2$ and $\frac{7}{6}-\frac{5}{6}=\frac{2}{6}=\frac{1}{3}$.
18. Borrow one whole: $3\frac{2}{8}=2\frac{10}{8}$. Then $2-1=1$ and $\frac{10}{8}-\frac{5}{8}=\frac{5}{8}$.
19. Write 4 as $3\frac{3}{3}$. Then $3-1=2$ and $\frac{3}{3}-\frac{1}{3}=\frac{2}{3}$.
20. Write 5 as $4\frac{8}{8}$. Then $4-2=2$ and $\frac{8}{8}-\frac{3}{8}=\frac{5}{8}$.
21. Add the wholes: $2+1=3$. Add the fractions: $\frac{3}{8}+\frac{2}{8}=\frac{5}{8}$. Together that is $3\frac{5}{8}$ miles.
22. You cannot do $\frac{1}{4}-\frac{3}{4}$, so borrow a whole: $5\frac{1}{4}=4\frac{5}{4}$. Then $4-2=2$ and $\frac{5}{4}-\frac{3}{4}=\frac{2}{4}=\frac{1}{2}$.
23. Add the wholes: $1+2=3$. Add the fractions: $\frac{5}{6}+\frac{5}{6}=\frac{10}{6}=1\frac{4}{6}$. Regroup: $3+1\frac{4}{6}=4\frac{4}{6}=4\frac{2}{3}$ feet.
24. Write 4 as $3\frac{10}{10}$. Then $3-1=2$ and $\frac{10}{10}-\frac{3}{10}=\frac{7}{10}$, giving $2\frac{7}{10}$ gallons.

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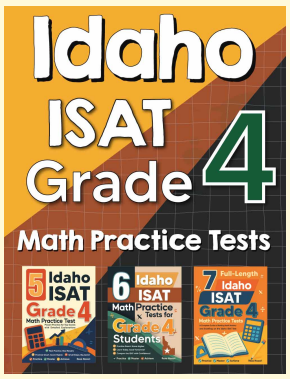

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