SKILL 4: Adding Mixed Numbers

Just as you can add whole numbers and fractions, you can add mixed numbers.

Example

Find $1\frac{1}{2} + 3\frac{5}{6}$ in simplest form.

The fractions do not have a common denominator.	Rewrite the fractions with a common denominator.	Add the whole numbers. Add the fractions.	Rewrite the improper fraction as a mixed number in simplest form. Add the whole numbers.
$1\frac{1}{2} \rightarrow$ $+\ 3\frac{5}{6}$	$1\frac{3}{6} \rightarrow$ $+\ 3\frac{5}{6}$	$1\frac{3}{6} \rightarrow$ $+\ 3\frac{5}{6}$ $\overline{\qquad}$ $4\frac{8}{6}$	$1\frac{3}{6}$ $+\ 3\frac{5}{6}$ $\overline{\qquad}$ $4\frac{8}{6} = 4 + 1\frac{2}{6}$ $= 4 + 1\frac{1}{3}$ $= 5\frac{1}{3}$

So, $1\frac{1}{2} + 3\frac{5}{6} = 5\frac{1}{3}$.

Guided Practice

Rewrite each number in simplest form.

1. $4\frac{6}{5} = 5\frac{\square}{5}$

2. $12\frac{11}{8} = \square\frac{\square}{8}$

3. $3\frac{6}{4} = 3 + 1\frac{\square}{4} = \square\frac{\square}{\square}$

4. $5\frac{3}{3} = \square$

Add. Write each sum in simplest form.

5. $8\frac{1}{5}$
    $+\ 1\frac{2}{5}$
    $\overline{\qquad}$

6. $2\frac{2}{3}$
    $+\ 3\frac{2}{3}$
    $\overline{\qquad}$

7. $1\frac{1}{2}$
    $+\ 1\frac{1}{2}$
    $\overline{\qquad}$

8. $3\frac{4}{9}$
    $+\ 4\frac{7}{9}$
    $\overline{\qquad}$

9. $4\frac{7}{8} \rightarrow \quad 4\frac{\square}{8}$
    $+\ 2\frac{3}{4} \rightarrow +\ 2\frac{\square}{8}$
    $\overline{\qquad\qquad\qquad}$
    $\qquad\qquad 6\frac{\square}{8} = 7\frac{\square}{8}$

10. $1\frac{5}{6} \rightarrow \quad 1\frac{\square}{6}$
     $+\ 3\frac{2}{3} \rightarrow +\ 3\frac{\square}{\square}$
     $\overline{\qquad\qquad\qquad}$
     $\qquad\qquad 4\frac{\square}{\square} = \square\frac{\square}{\square}$

SKILL 4: Practice

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Add. Write the sum in simplest form.

1. $13\frac{1}{5}$
   $+ 5\frac{3}{5}$

2. $7\frac{2}{5}$
   $+ 1\frac{2}{3}$

3. $9\frac{20}{23}$
   $+ 14$

4. 6
   $+ 14\frac{1}{2}$

5. 4
   $+ 9\frac{5}{17}$

6. $3\frac{16}{19}$
   $+ 7$

7. $10\frac{13}{15}$
   $+ 4\frac{13}{15}$

8. 2
   $+ 16\frac{5}{19}$

9. $6\frac{1}{7}$
   $+ 19\frac{2}{5}$

10. $15\frac{1}{2}$
    $+ 17\frac{1}{7}$

11. $10\frac{1}{4}$
    $+ 7\frac{3}{4}$

12. $1\frac{4}{5}$
    $+ 3\frac{5}{6}$

13. $11\frac{10}{11}$
    $+ 5$

14. $11\frac{3}{8}$
    $+ 16\frac{3}{4}$

15. $11\frac{4}{5}$
    $+ 2\frac{13}{15}$

16. $16\frac{4}{15}$
    $+ 8\frac{13}{15}$

17. Stephanie used $2\frac{7}{8}$ feet of ribbon to trim a pillowcase and $5\frac{1}{2}$ feet of ribbon to trim a quilt. How much ribbon did she use in all? _____

18. A recipe calls for $1\frac{1}{4}$ cups of cheddar cheese, $1\frac{1}{3}$ cups of Monterey jack cheese, and $1\frac{1}{2}$ cups of mozzarella cheese. How much cheese is used in the recipe? _____

TEST PREP

19. Find the sum in simplest form:
    $6\frac{2}{3} + 2\frac{4}{9}$.

    Skill 4

    A $8\frac{1}{2}$ **C** $9\frac{1}{9}$

    B $8\frac{3}{5}$ **D** $9\frac{1}{10}$

20. Kyle used $\frac{3}{5}$ yard of wire to hang one painting and $\frac{1}{4}$ yard of wire to hang another painting. How much wire did Kyle use in all?

    Skill 3

    F $\frac{1}{5}$ yd   **H** $\frac{4}{9}$ yd

    G $\frac{3}{20}$ yd   **J** $\frac{17}{20}$ yd