032 Math Practice

Renaming Mixed Numbers with Improper Fractions

Math PRACTICE *in* SCIENCE

Sometimes, when you work a mathematics problem, you get an answer that has a mixed number with an improper fraction. Remember, an improper fraction is more than 1. You may have to rename the fraction to a whole number and improper fraction.

Example: Rename $13\frac{7}{2}$.

Step 1: Think of the mixed number with an improper fraction as the sum of two parts of the answer. Separate the two parts. $13\frac{7}{2} = 13 + \frac{7}{2}$

Step 2: Rename the improper fraction. $\frac{7}{2} = 7 \div 2 = 3\frac{1}{2}$

Step 3: Add the parts. $13 + 3\frac{1}{2} = 16\frac{1}{2}$

$$13\frac{7}{2} = 16\frac{1}{2}$$

Rename these mixed numbers as whole numbers with proper fractions.

1. $13\frac{5}{2} =$
2. $16\frac{15}{5} =$
3. $5\frac{6}{3} =$
4. $11\frac{15}{10} =$
5. $39\frac{12}{10} =$
6. $15\frac{15}{7} =$
7. $28\frac{6}{5} =$
8. $13\frac{7}{6} =$
9. $26\frac{11}{5} =$
10. $14\frac{18}{7} =$
11. $19\frac{3}{2} =$
12. $23\frac{5}{4} =$
13. $33\frac{8}{6} =$
14. $2\frac{7}{5} =$
15. $13\frac{17}{16} =$
16. $8\frac{16}{7} =$
17. $15\frac{8}{2} =$
18. $8\frac{9}{3} =$
19. $9\frac{13}{10} =$
20. $71\frac{22}{10} =$
21. $9\frac{10}{2} =$
22. $12\frac{8}{7} =$
23. $16\frac{11}{7} =$
24. $6\frac{9}{8} =$

033 Math Practice

Adding Fractions with Like Denominators

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Adding fractions and mixed numbers is much like adding whole numbers. You add the whole numbers, add the numerators, and keep the same denominator.

Examples:

$$\begin{array}{r} 2\frac{2}{5} \\ +\ 4\frac{1}{5} \\ \hline 6\frac{3}{5} \end{array}$$

Step 1: Add the whole-number portions. $2 + 4 = 6$

Step 2: Add the numerators. $2 + 1 = 3$

Step 3: The new numerator is 3. The denominator remains the same, 5.

$$\begin{array}{r} 3\frac{5}{6} \\ +\ 5\frac{4}{6} \\ \hline 8\frac{9}{6} = 9\frac{1}{2} \end{array}$$

Step 1: Add the whole-number portions. $3 + 5 = 8$

Step 2: Add the numerators. $5 + 4 = 9$

Step 3: The sum $8\frac{9}{6}$ can be renamed to $9\frac{1}{2}$.

Add these fractions. Rename your answer in lowest terms.

1. $\begin{array}{r} \frac{2}{7} \\ +\ \frac{3}{7} \\ \hline \end{array}$

2. $\begin{array}{r} \frac{5}{11} \\ +\ \frac{4}{11} \\ \hline \end{array}$

3. $\begin{array}{r} \frac{6}{13} \\ +\ \frac{8}{13} \\ \hline \end{array}$

4. $\begin{array}{r} 5\frac{2}{15} \\ +\ 6\frac{5}{15} \\ \hline \end{array}$

5. $\begin{array}{r} 7\frac{7}{11} \\ +\ \frac{6}{11} \\ \hline \end{array}$

6. $\begin{array}{r} 6\frac{7}{13} \\ +\ 5\frac{3}{13} \\ \hline \end{array}$

7. $\begin{array}{r} 9\frac{4}{13} \\ +10\frac{9}{13} \\ \hline \end{array}$

8. $\begin{array}{r} 6\frac{2}{7} \\ +\ \frac{6}{7} \\ \hline \end{array}$

9. $\begin{array}{r} 9\frac{1}{15} \\ +\ \frac{13}{15} \\ \hline \end{array}$

10. $\begin{array}{r} 8\frac{2}{18} \\ +\ \frac{3}{18} \\ \hline \end{array}$

11. $\begin{array}{r} 8\frac{1}{5} \\ +\ 2\frac{4}{5} \\ \hline \end{array}$

12. $\begin{array}{r} 7\frac{7}{16} \\ +\ 1\frac{1}{16} \\ \hline \end{array}$

13. $\begin{array}{r} 9\frac{2}{11} \\ +\ 2\frac{5}{11} \\ \hline \end{array}$

14. $\begin{array}{r} 5\frac{9}{12} \\ +\ \frac{2}{12} \\ \hline \end{array}$

15. $\begin{array}{r} 8\frac{11}{15} \\ +\ 3\frac{4}{15} \\ \hline \end{array}$