Simplifying Mixed Numbers

$2\frac{5}{15} = 2 + \frac{5}{15}$

$= 2 + \frac{5 \div 5}{15 \div 5}$

$= 2 + \frac{1}{3}$

$= 2\frac{1}{3}$

When simplifying mixed numbers, simplify the fraction.

$3\frac{9}{6} = 3 + \frac{9}{6}$

$= 3 + \frac{9 \div 3}{6 \div 3}$

$= 3 + \frac{3}{2}$

Change to a mixed number.

$= 3 + 1\frac{1}{2}$

$= 3 + 1 + \frac{1}{2} = 4\frac{1}{2}$

Study the examples above. Then, simplify.

A. $2\frac{2}{4} = 2\frac{1}{2}$ $\frac{5}{2}$ $\quad 3\frac{5}{15} = 3\frac{1}{3}$ $\frac{10}{3}$ $\quad 2\frac{12}{16} = 2\frac{3}{4}$ $\frac{11}{4}$

B. $1\frac{6}{9} = 1\frac{2}{3}$ $\frac{5}{3}$ $\quad 2\frac{9}{2} = 4\frac{1}{2}$ $\frac{13}{2}$ $\quad 6\frac{3}{3} = 7$ $\frac{7}{1}$

C. $2\frac{5}{20} = 2\frac{1}{4}$ $\frac{9}{4}$ $\quad 4\frac{7}{21} = 4\frac{1}{3}$ $\frac{13}{3}$ $\quad 5\frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$ $\quad 6\frac{1}{2}$ $\frac{13}{2}$

D. $4\frac{9}{3} = 3$ $\quad 7$ $\frac{7}{1}$ $\quad 5\frac{3}{12} = 5\frac{1}{4}$ $\frac{21}{4}$ $\quad 2\frac{3}{2} = 1\frac{1}{2}$ $\quad 3\frac{1}{2}$ $\frac{7}{2}$