Multiplying Mixed Numbers

Step 1: **Change mixed numbers to improper fractions.**

Step 2: **Multiply numerators.**

Step 3: **Multiply denominators.**

Step 4: **Write improper fractions as mixed numbers in simplest form.**

Example A:

$$4\frac{1}{3} \bullet 2\frac{1}{2}$$

$$\frac{13}{3} \bullet \frac{5}{2} = \frac{65}{6}$$

$$\frac{65}{6} = 10\frac{5}{6}$$

Example B:

$$2\frac{2}{5} \bullet 8\frac{3}{4}$$

$$\frac{12}{5} \bullet \frac{35}{4} =$$

$$\overset{3}{\cancel{\frac{12}{5}}} \bullet \overset{7}{\underset{1}{\cancel{\frac{35}{4}}}} = \frac{21}{1} = 21$$

> *Remember:*
>
> You can look for common factors in a numerator and a denominator after you convert the mixed numbers into improper fractions to see if you can simplify before multiplying.

Now you try:

$$1\frac{7}{8} \bullet 2\frac{2}{5} \qquad 3\frac{1}{10} \bullet 1\frac{3}{4} \qquad 2\frac{1}{3} \bullet 1\frac{3}{4}$$