

# Lesson 2.1 Multiplying Fractions and Mixed Numbers

Multiply fractions.

$$\frac{3}{8} \times \frac{2}{3} = \frac{3 \times 2}{8 \times 3}$$

Multiply numerators together.  
Multiply denominators together.

$$= \frac{6}{24} = \frac{1}{4} \text{ Simplify.}$$

Multiply mixed numbers.

$$2\frac{3}{4} \times 3\frac{1}{3} = \frac{11}{4} \times \frac{10}{3}$$

Rename each mixed number as an improper fraction.

$$\frac{11}{4} \times \frac{10}{3} = \frac{110}{12} = \frac{55}{6}$$

Multiply.  
Simplify.

$$= 9\frac{1}{6}$$

Multiply. Write answers in simplest form.

**a****b****c****d**

**1.**  $\frac{2}{5} \times \frac{2}{3} =$

$\frac{3}{4} \times \frac{5}{6} =$

$\frac{7}{8} \times \frac{5}{7} =$

$\frac{2}{5} \times \frac{3}{4} =$

**2.**  $\frac{7}{12} \times \frac{3}{4} =$

$\frac{2}{3} \times \frac{8}{9} =$

$\frac{4}{5} \times \frac{3}{8} =$

$\frac{3}{7} \times \frac{3}{5} =$

**3.**  $\frac{1}{6} \times \frac{2}{3} =$

$\frac{11}{12} \times \frac{2}{3} =$

$\frac{2}{5} \times \frac{2}{5} =$

$\frac{3}{4} \times \frac{3}{7} =$

**4.**  $1\frac{1}{3} \times 2\frac{1}{8} =$

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

$2\frac{5}{8} \times 2\frac{3}{5} =$

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

**5.**  $3\frac{1}{5} \times 5\frac{2}{3} =$

$4\frac{1}{2} \times 4\frac{1}{2} =$

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

$2\frac{4}{5} \times 3\frac{1}{8} =$

**6.**  $2\frac{2}{3} \times 5\frac{1}{4} =$

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

$3\frac{1}{4} \times 1\frac{1}{8} =$

$2\frac{7}{8} \times 1\frac{1}{3} =$