

**Pre-Test: Multiplying Fractions****Multiply. Write each fraction or mixed number in simplest form.**

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

$\frac{3}{10} \times \frac{1}{12} =$

$\frac{4}{7} \times \frac{2}{3} =$

$\frac{3}{4} \times \frac{6}{8} =$

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

$\frac{3}{7} \times \frac{4}{5} =$

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

$\frac{4}{6} \times 7 =$

3.  $4 \times \frac{10}{16} =$

$\frac{10}{15} \times 3 =$

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

$\frac{2}{3} \times 3\frac{2}{6} =$

4.  $1\frac{3}{9} \times \frac{2}{3} =$

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

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

$1\frac{1}{3} \times 1\frac{1}{6} =$

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

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

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

$1\frac{4}{16} \times 4 =$

**Solve each problem.**

6. Sterling travels  $2\frac{1}{8}$  miles each day on his paper route. How many miles does he travel in 5 days?
7. Sterling delivers 35 newspapers, of which  $\frac{2}{5}$  are delivered on his street. How many newspapers does he deliver on his street?



## Fractions: Multiplication



### Step 1

Multiply the numerators.  
Multiply the denominators.

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

$$= \frac{6}{32}$$

### Step 2

Write the fraction in simplest form.

$$= \frac{3}{16}$$

$$\frac{6 \div 2}{32 \div 2}$$

Multiply. Write each fraction in simplest form.

1.  $\frac{1}{8} \times \frac{1}{5} =$        $\frac{1}{4} \times \frac{1}{7} =$        $\frac{1}{12} \times \frac{1}{8} =$        $\frac{1}{15} \times \frac{1}{10} =$

2.  $\frac{3}{7} \times \frac{4}{5} =$        $\frac{4}{5} \times \frac{6}{8} =$        $\frac{2}{3} \times \frac{4}{7} =$        $\frac{6}{8} \times \frac{3}{4} =$

3.  $\frac{5}{6} \times \frac{4}{5} =$        $\frac{2}{3} \times \frac{7}{8} =$        $\frac{7}{9} \times \frac{8}{9} =$        $\frac{9}{10} \times \frac{2}{3} =$

4.  $\frac{1}{2} \times \frac{2}{12} =$        $\frac{2}{3} \times \frac{4}{12} =$        $\frac{6}{8} \times \frac{4}{16} =$        $\frac{9}{15} \times \frac{5}{6} =$

5.  $\frac{7}{10} \times \frac{3}{5} =$        $\frac{2}{7} \times \frac{10}{14} =$        $\frac{4}{6} \times \frac{12}{18} =$        $\frac{4}{5} \times \frac{10}{12} =$

6.  $\frac{12}{16} \times \frac{3}{7} =$        $\frac{6}{12} \times \frac{5}{6} =$        $\frac{2}{4} \times \frac{10}{12} =$        $\frac{2}{3} \times \frac{3}{7} =$