3.10 Multiplying Fractions and Mixed Numbers

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Dec 4-8:55 AM

In 2001, the car toll on the George Washington Bridge was $6.00. In 1995 the toll was $\frac{2}{3}$ of that toll. What was the toll in 1995?

$\frac{2}{3}$ of \$6.00

$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$

$\frac{2}{3} \times \frac{6^2}{1} = \frac{4}{1} = 4$

$\frac{21}{10} \cdot \frac{56^1}{28}$

Dec 4-8:57 AM

In 2002, the fee to park in a parking garage was $4. In 2000 the fee was $\frac{3}{4}$ of the fee in 2002. What was the fee in 2000?

Jan 20-8:36 AM

To multiply fractions, multiply the numerators to find the product's numerator. Then multiply the denominators to find the product's denominator.

Multiply. Write the answer in simplest form.

$-12 \cdot \frac{3}{4}$

$-12 \cdot \frac{3}{4} = -$

$3\ \frac{12}{1} \cdot \frac{3}{4_1} = 9$

Jan 20-8:38 AM

$\frac{1}{3} \cdot \frac{3}{8} = \frac{1}{8}$

$\frac{3}{5} \cdot \left(-\frac{1}{4}\right) = \frac{-3}{20}$

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$-\frac{16}{1} \cdot \frac{1}{4}$

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

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$\left(-\frac{3}{7}\right) \cdot \frac{1}{8}$

$\frac{2}{5} \cdot 1\frac{2}{3}$

$\frac{2}{5} \cdot \frac{5}{3} = \frac{2}{3}$

Jan 20-8:40 AM

$4\frac{1}{5} \cdot 2\frac{1}{7}$

$\frac{21}{5} \cdot \frac{15}{7} = 9$

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$\frac{3}{5} \cdot 2\frac{1}{3}$

$3\frac{3}{6} \cdot 1\frac{1}{3}$

$\frac{21}{6} \cdot \frac{4}{3}$

$\frac{\cancel{21}^{7}}{\cancel{6}_{3}} \cdot \frac{\cancel{4}^{2}}{\cancel{3}_{1}} = \frac{14}{3} = 4\frac{2}{3}$

$\frac{28}{6} = 4\frac{4}{6} = 4\frac{2}{3}$

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$3\frac{1}{6} \cdot 1\frac{1}{3}$

$\frac{19}{\cancel{6}_{3}} \cdot \frac{\cancel{4}^{2}}{3} = \frac{38}{9} = 4\frac{2}{9}$

Jan 20-8:41 AM

$6\frac{2}{3} \cdot 4\frac{2}{5}$

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Multiply. Write each answer in simplest terms.

1. $\frac{1}{8} \cdot \frac{5}{6}$
2. $5\frac{5}{6} \cdot \frac{1}{2}$
3. $5\frac{1}{10} \cdot 1\frac{2}{3}$
4. $\frac{3}{16} \cdot 4\frac{2}{3}$

Jan 20-8:41 AM