

Math 0404 – Pre-Algebra  
Fractions – Multiplication/Division

Perform the indicated operation. Simplify your answer.

1.  $6 \cdot \frac{5}{18}$

2.  $\frac{5}{8} \div 10$

3.  $\left(8\frac{2}{3}\right)\left(4\frac{1}{2}\right)$

4.  $9 \div 9\frac{3}{4}$

5.  $\left(4\frac{12}{15}\right)\left(2\frac{1}{8}\right)(0)$

6.  $\frac{6}{35} \div \frac{3}{7} \div 8$

7.  $\left(10\frac{2}{5}\right)\left(4\frac{1}{6}\right)$

8.  $\frac{8}{3} \div \frac{5}{6}$

9.  $\frac{10}{18} \div \frac{5}{6} \cdot \frac{2}{3}$

10.  $10\frac{3}{4} \div 3\frac{6}{8}$

11.  $\left(\frac{3}{4}\right)^2$

12.  $\left(\frac{1}{5}\right)^3$

## Solutions

1.  $6 \cdot \frac{5}{18}$

2.  $\frac{5}{8} \div 10$

3.  $\left(8\frac{2}{3}\right)\left(4\frac{1}{2}\right)$

$\frac{5}{3}$

$\frac{1}{16}$

$39\frac{3}{8}$

4.  $9 \div 9\frac{3}{4}$

5.  $\left(4\frac{12}{15}\right)\left(2\frac{1}{8}\right)(0)$

6.  $\frac{6}{35} \div \frac{3}{7} \div 8$

$\frac{12}{13}$

0

$\frac{1}{20}$

7.  $\left(10\frac{2}{5}\right)\left(4\frac{1}{6}\right)$

8.  $\frac{8}{3} \div \frac{5}{6}$

9.  $\frac{10}{18} \div \frac{5}{6} \cdot \frac{2}{3}$

$43\frac{1}{3}$

$\frac{16}{5}$

$\frac{4}{9}$

10.  $10\frac{3}{4} \div 3\frac{6}{8}$

11.  $\left(\frac{3}{4}\right)^2$

12.  $\left(\frac{1}{5}\right)^3$

$2\frac{13}{15}$

$\frac{9}{16}$

$\frac{1}{125}$