Multiplying and Dividing Fractions Mix-Up

Name _____

1. $\frac{13}{16} \cdot \frac{10}{39}$

2. $\frac{7}{10} \div \frac{5}{12}$

3. $4\frac{2}{5} \cdot 300$

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

5. $7\frac{1}{2} \div 3$

Solve for *x*.

6. $\frac{3}{4}x = \frac{9}{10}$

7. $6\frac{2}{5} \div 3\frac{1}{5}$

Solve for *x*.

8. $3x = 2\frac{5}{8}$

9. $\left(\frac{2}{6}\right)^2$

10. $2\frac{4}{7} \cdot 1\frac{5}{9}$

11. $600 \div 8\frac{4}{7}$

12. $9\frac{3}{8} \cdot 8\frac{4}{5}$

Multiplying and Dividing Fractions Mix-Up

Name Key

1. $\frac{13}{16} \cdot \frac{10}{39} = \frac{5}{24}$

2. $\frac{7}{10} \div \frac{5}{12}$

$\frac{7}{10} \cdot \frac{12}{5} = \frac{42}{25} = 1\frac{17}{25}$

3. $4\frac{2}{5} \cdot 300$

$\frac{22}{5} \cdot \frac{300}{1} = \frac{1320}{1}$

$= 1320$

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

$\frac{3}{2} \cdot \frac{3}{2} \cdot \frac{3}{2} = \frac{27}{8} = 3\frac{3}{8}$

5. $7\frac{1}{2} \div 3$

$\frac{15}{2} \div \frac{3}{1}$

$\frac{15}{2} \cdot \frac{1}{3} = \frac{5}{2} = 2\frac{1}{2}$

Solve for x.

6. $\frac{3}{4}x = \frac{9}{10} \div \frac{3}{4}$

$\div \frac{3}{4}$ | $\frac{3}{10} \cdot \frac{4}{3}$

$x = \frac{6}{5} = 1\frac{1}{5}$

7. $6\frac{2}{5} \div 3\frac{1}{5}$

$\frac{32}{5} \div \frac{16}{5}$

$\frac{2}{1}\frac{32}{5} \cdot \frac{5}{16}_{1}^{1} = \frac{2}{1} = \boxed{2}$

Solve for x.

8. $3x = 2\frac{5}{8} \div 3$

$\div 3$

$\frac{21}{8} \div \frac{3}{1}$

$\frac{7}{1}\frac{21}{8} \cdot \frac{1}{3}_{1}$

$\boxed{x = \frac{7}{8}}$

9. $\left(\frac{2}{6}\right)^2$

$\frac{1}{3} \cdot \frac{1}{3} = \boxed{\frac{1}{9}}$

10. $2\frac{4}{7} \cdot 1\frac{5}{9}$

$\frac{2}{1}\frac{18}{7} \cdot \frac{14^{2}}{9}_{1} = \frac{4}{1} = \boxed{4}$

11. $600 \div 8\frac{4}{7}$

$\frac{600}{1} \div \frac{60}{7}$

$\frac{10}{1}\frac{600}{1} \cdot \frac{7}{60}_{1} = \frac{70}{1} = \boxed{70}$

12. $9\frac{3}{8} \cdot 8\frac{4}{5}$

$\frac{15}{2}\frac{75}{8} \cdot \frac{44^{11}}{5}_{1} = \frac{165}{2} = \boxed{82\frac{1}{2}}$