

Name _____

Date _____

Dividing Fractions and Mixed Numbers

Calculate the quotient.

1. $\frac{3}{4} \div 5\frac{1}{5}$

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

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

4. $\frac{5}{8} \div 8\frac{3}{10}$

Calculate each quotient.

1. $\frac{2}{5} \div 3\frac{1}{10}$

2. $4\frac{1}{3} \div \frac{4}{7}$

3. $3\frac{1}{6} \div \frac{9}{10}$

4. $\frac{5}{8} \div 2\frac{7}{12}$

Calculate the quotient.

1. $\frac{3}{4} \div 5\frac{1}{5}$

$$\frac{3}{4} \div 5\frac{1}{5} = \frac{3}{4} \div \frac{26}{5} = \frac{3}{4} \times \frac{5}{26} = \frac{15}{104}$$

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

$$\frac{3}{7} \div 2\frac{1}{2} = \frac{3}{7} \div \frac{5}{2} = \frac{3}{7} \times \frac{2}{5} = \frac{6}{35}$$

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

$$\frac{5}{8} \div 6\frac{5}{6} = \frac{5}{8} \div \frac{41}{6} = \frac{5}{8} \times \frac{6}{41} = \frac{30}{328} \text{ or } \frac{15}{164}$$

4. $\frac{5}{8} \div 8\frac{3}{10}$

$$\frac{5}{8} \div 8\frac{3}{10} = \frac{5}{8} \div \frac{83}{10} = \frac{5}{8} \times \frac{10}{83} = \frac{50}{664} \text{ or } \frac{25}{332}$$

Calculate each quotient.

1. $\frac{2}{5} \div 3\frac{1}{10}$

$$\frac{2}{5} \div 3\frac{1}{10} = \frac{2}{5} \div \frac{31}{10} = \frac{2}{5} \times \frac{10}{31} = \frac{20}{155} \text{ or } \frac{4}{31}$$

2. $4\frac{1}{3} \div \frac{4}{7}$

$$4\frac{1}{3} \div \frac{4}{7} = \frac{13}{3} \div \frac{4}{7} = \frac{13}{3} \times \frac{7}{4} = \frac{91}{12} \text{ or } 7\frac{7}{12}$$

3. $3\frac{1}{6} \div \frac{9}{10}$

$$3\frac{1}{6} \div \frac{9}{10} = \frac{19}{6} \div \frac{9}{10} = \frac{19}{6} \times \frac{10}{9} = \frac{190}{54} \text{ or } \frac{95}{27} \text{ or } 3\frac{28}{54} \text{ or } 3\frac{14}{27}$$

4. $\frac{5}{8} \div 2\frac{7}{12}$

$$\frac{5}{8} \div 2\frac{7}{12} = \frac{5}{8} \div \frac{31}{12} = \frac{5}{8} \times \frac{12}{31} = \frac{60}{248} \text{ or } \frac{15}{62}$$