

MIXED NUMBER MULTIPLICATION AND DIVISIONEXERCISE

1.  $3\frac{1}{3} \times 3\frac{1}{4}$

6.  $12\frac{1}{4} \div 3\frac{1}{2}$

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

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

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

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

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

9.  $2\frac{2}{7} \div 5\frac{1}{3}$

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

10.  $8\frac{1}{4} \div 3\frac{2}{3}$

$$1. \quad 3\frac{1}{3} \times 3\frac{1}{4}$$

$$= \overset{5}{\cancel{10}}\frac{1}{3} \times \frac{13}{\cancel{4}_2}$$

$$= \frac{5 \times 13}{3 \times 2}$$

$$= \frac{65}{6}$$

$$= 10\frac{5}{6}$$

$$= \frac{25}{2}$$

$$= 12\frac{1}{2}$$

$$2. \quad 2\frac{1}{4} \times 2\frac{1}{3}$$

$$= \overset{3}{\cancel{9}}\frac{1}{4} \times \frac{7}{\cancel{3}_1}$$

$$= \frac{3 \times 7}{4 \times 1}$$

$$= \frac{21}{4}$$

$$= 5\frac{1}{4}$$

$$4. \quad 3\frac{3}{4} \times 1\frac{2}{5}$$

$$= \overset{3}{\cancel{15}}\frac{3}{4} \times \frac{7}{\cancel{5}_1}$$

$$= \frac{3 \times 7}{4 \times 1}$$

$$= \frac{21}{4}$$

$$= 5\frac{1}{4}$$

$$5. \quad 2\frac{2}{3} \times 2\frac{3}{4}$$

$$= \overset{2}{\cancel{8}}\frac{2}{3} \times \frac{11}{\cancel{4}_1}$$

$$= \frac{2 \times 11}{3 \times 1}$$

$$= \frac{22}{3}$$

$$= 7\frac{1}{3}$$

$$3. \quad 7\frac{1}{2} \times 1\frac{2}{3}$$

$$= \overset{5}{\cancel{15}}\frac{1}{2} \times \frac{5}{\cancel{3}_1}$$

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

MIXED NUMBER MULTIPLICATION AND DIVISION

EXERCISE

$$\begin{aligned}
 6. \quad & 12\frac{1}{4} \div 3\frac{1}{2} \\
 & = \frac{49}{4} \div \frac{7}{2} \\
 & = \frac{\overset{7}{\cancel{49}}}{\underset{2}{\cancel{4}}} \times \frac{\overset{2}{\cancel{2}}}{\underset{7}{\cancel{7}}} \\
 & = \frac{7 \times 1}{2 \times 1} \\
 & = \frac{7}{2} = 3\frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 & = \frac{5 \times 1}{1 \times 2} \\
 & = \frac{5}{2} = 2\frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 7. \quad & 5\frac{1}{3} \div 1\frac{1}{7} \\
 & = \frac{16}{3} \div \frac{8}{7} \\
 & = \frac{\overset{2}{\cancel{16}}}{\underset{3}{\cancel{3}}} \times \frac{\overset{7}{\cancel{7}}}{\underset{8}{\cancel{8}}} \\
 & = \frac{2 \times 7}{3 \times 1} \\
 & = \frac{14}{3} = 4\frac{2}{3}
 \end{aligned}$$

$$\begin{aligned}
 9. \quad & 2\frac{2}{7} \div 5\frac{1}{3} \\
 & = \frac{16}{7} \div \frac{16}{3} \\
 & = \frac{\overset{1}{\cancel{16}}}{\underset{7}{\cancel{7}}} \times \frac{\overset{3}{\cancel{3}}}{\underset{16}{\cancel{16}}} \\
 & = \frac{1 \times 3}{7 \times 1} \\
 & = \frac{3}{7}
 \end{aligned}$$

$$\begin{aligned}
 8. \quad & 8\frac{1}{3} \div 3\frac{1}{3} \\
 & = \frac{25}{3} \div \frac{10}{3} \\
 & = \frac{\overset{5}{\cancel{25}}}{\underset{3}{\cancel{3}}} \times \frac{\overset{3}{\cancel{3}}}{\underset{10}{\cancel{10}}} \\
 & = \frac{5 \times 1}{1 \times 2}
 \end{aligned}$$

$$\begin{aligned}
 10. \quad & 8\frac{1}{4} \div 3\frac{2}{3} \\
 & = \frac{33}{4} \div \frac{11}{3} \\
 & = \frac{\overset{3}{\cancel{33}}}{\underset{4}{\cancel{4}}} \times \frac{\overset{3}{\cancel{3}}}{\underset{11}{\cancel{11}}} \\
 & = \frac{3 \times 3}{4 \times 1} \\
 & = \frac{9}{4} = 2\frac{1}{4}
 \end{aligned}$$