

Dividing Fractions Practice

Name: _____

Date: _____

Question 1

Solve the division equations (simplify if possible)

I. $\frac{3}{2} \div \frac{3}{8} =$

II. $\frac{1}{4} \div \frac{1}{6} =$

III. $\frac{12}{5} \div \frac{7}{2} =$

IV. $\frac{1}{32} \div 9\frac{1}{16} =$

V. $7\frac{2}{3} \div 4\frac{2}{3} =$

VI. $\frac{5}{2} \div \frac{5}{2} =$

VII. $12 \div \frac{9}{4} =$

VIII. $\frac{32}{7} \div 40 =$

IX. $7 \div 2\frac{1}{16} =$

Dividing Fractions Practice

Name: **Key**

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Question 1

Solve the division equations (simplify if possible)

$$\begin{array}{l} \text{I. } \frac{3}{2} \div \frac{3}{8} = \frac{4}{1} \\ \quad \downarrow \text{reciprocal} \\ \frac{3}{2} \cdot \frac{8}{3} = \frac{24}{6} \\ \quad \downarrow \text{simplify} \\ \frac{4}{1} \end{array}$$

$$\begin{array}{l} \text{II. } \frac{1}{4} \div \frac{1}{6} = \frac{3}{2} \\ \quad \downarrow \text{reciprocal} \\ \frac{1}{4} \cdot \frac{6}{1} = \frac{6}{4} \\ \quad \downarrow \text{simplify} \\ \frac{3}{2} \end{array}$$

$$\begin{array}{l} \text{III. } \frac{12}{5} \div \frac{7}{2} = \frac{24}{35} \\ \quad \downarrow \text{reciprocal} \\ \frac{12}{5} \cdot \frac{2}{7} = \frac{24}{35} \end{array}$$

$$\begin{array}{l} \text{IV. } \frac{1}{32} \div 9\frac{1}{16} = \frac{1}{290} \\ \quad \downarrow \text{convert} \\ \frac{1}{32} \div \frac{145}{16} = \\ \quad \downarrow \text{reciprocal} \\ \frac{1}{32} \cdot \frac{16}{145} = \frac{16}{4,640} \\ \quad \downarrow \text{simplify} \\ \frac{1}{290} \end{array}$$

$$\begin{array}{l} \text{V. } 7\frac{2}{3} \div 4\frac{2}{3} = \frac{23}{14} \\ \quad \downarrow \text{convert} \\ \frac{23}{3} \div \frac{14}{3} = \\ \quad \downarrow \text{reciprocal} \\ \frac{23}{3} \cdot \frac{3}{14} = \frac{69}{42} \\ \quad \downarrow \text{simplify} \\ \frac{23}{14} \end{array}$$

$$\begin{array}{l} \text{VI. } \frac{5}{2} \div \frac{5}{2} = \frac{1}{1} \\ \quad \downarrow \text{reciprocal} \\ \frac{5}{2} \cdot \frac{2}{5} = \frac{10}{10} \\ \quad \downarrow \text{simplify} \\ \frac{1}{1} \end{array}$$

$$\begin{array}{l} \text{VII. } 12 \div \frac{9}{4} = \frac{16}{3} \\ \quad \downarrow \text{convert} \\ \frac{12}{1} \div \frac{9}{4} = \\ \quad \downarrow \text{reciprocal} \\ \frac{12}{1} \cdot \frac{4}{9} = \frac{48}{9} \\ \quad \downarrow \text{simplify} \\ \frac{16}{3} \end{array}$$

$$\begin{array}{l} \text{VIII. } \frac{32}{7} \div 40 = \frac{4}{35} \\ \quad \downarrow \text{convert} \\ \frac{32}{7} \div \frac{40}{1} = \\ \quad \downarrow \text{reciprocal} \\ \frac{32}{7} \cdot \frac{1}{40} = \frac{32}{280} \\ \quad \downarrow \text{simplify} \\ \frac{4}{35} \end{array}$$

$$\begin{array}{l} \text{IX. } 7 \div 2\frac{1}{16} = \frac{112}{33} \\ \quad \downarrow \text{convert} \\ \frac{7}{1} \div \frac{33}{16} = \\ \quad \downarrow \text{reciprocal} \\ \frac{7}{1} \cdot \frac{16}{33} = \frac{112}{33} \end{array}$$