

Complex Fractions Practice

Name: _____

Date: _____

Question 1

Solve the division equations (simplify if possible)

I. $\frac{\frac{3}{2}}{\frac{6}{7}} =$

II. $\frac{12\frac{1}{2}}{\frac{4}{5}} =$

III. $\frac{\frac{4}{3}}{3\frac{3}{4}} =$

IV. $\frac{\frac{1}{2}}{\frac{8}{11}} =$

V. $\frac{\frac{5}{2}}{\frac{2}{8}} =$

VI. $\frac{\frac{1}{32}}{\frac{42}{42}} =$

VII. $\frac{2\frac{6}{11}}{\frac{9}{9}} =$

VIII. $\frac{\frac{9}{2}}{2\frac{6}{11}} =$

IX. $\frac{\frac{5}{16}}{\frac{5}{5}} =$

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Question 1

Solve the division equations (simplify if possible)

I. $\frac{\frac{3}{2}}{\frac{6}{7}} = \frac{7}{4}$

↓ convert

$$\frac{3}{2} \div \frac{6}{7} =$$

↓ reciprocal

$$\frac{3}{2} \cdot \frac{7}{6} = \frac{21}{12} \xrightarrow{\text{simplify}} \frac{7}{4}$$

II. $\frac{12\frac{1}{2}}{\frac{4}{5}} = \frac{125}{8}$

↓ convert

$$\frac{25}{2} \div \frac{4}{5} =$$

↓ reciprocal

$$\frac{25}{2} \cdot \frac{5}{4} = \frac{125}{8}$$

III. $\frac{\frac{4}{3}}{3\frac{3}{4}} = \frac{16}{45}$

↓ convert

$$\frac{4}{3} \div \frac{15}{4} =$$

↓ reciprocal

$$\frac{4}{3} \cdot \frac{4}{15} = \frac{16}{45}$$

IV. $\frac{\frac{1}{2}}{\frac{8}{11}} = \frac{11}{16}$

↓ convert

$$\frac{1}{2} \div \frac{8}{11} =$$

↓ reciprocal

$$\frac{1}{2} \cdot \frac{11}{8} = \frac{11}{16}$$

V. $\frac{\frac{5}{2}}{8} = \frac{5}{16}$

↓ convert

$$\frac{5}{2} \div \frac{8}{1} =$$

↓ reciprocal

$$\frac{5}{2} \cdot \frac{1}{8} = \frac{5}{16}$$

VI. $\frac{\frac{1}{32}}{42} = \frac{1}{1,344}$

↓ convert

$$\frac{1}{32} \div \frac{42}{1} =$$

↓ reciprocal

$$\frac{1}{32} \cdot \frac{1}{42} = \frac{1}{1,344}$$

VII. $\frac{2\frac{6}{11}}{9} = \frac{28}{99}$

↓ convert

$$\frac{28}{11} \div \frac{9}{1} =$$

↓ reciprocal

$$\frac{28}{11} \cdot \frac{1}{9} = \frac{28}{99}$$

VIII. $2\frac{9}{11} = \frac{99}{28}$

↓ convert

$$\frac{9}{1} \div \frac{28}{11} =$$

↓ reciprocal

$$\frac{9}{1} \cdot \frac{11}{28} = \frac{99}{28}$$

IX. $\frac{\frac{5}{16}}{5} = \frac{1}{16}$

↓ convert

$$\frac{5}{16} \div \frac{5}{1} =$$

↓ reciprocal

$$\frac{5}{16} \cdot \frac{1}{5} = \frac{5}{80}$$

simplify ↓

$$\frac{1}{16}$$