

Dividing Negative Mixed Fractions (D)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

1. $1\frac{1}{4} \div \left(-3\frac{6}{9}\right) =$

2. $\left(-5\frac{1}{2}\right) \div 2\frac{5}{9} =$

3. $\left(-3\frac{1}{2}\right) \div \left(-1\frac{3}{7}\right) =$

4. $\left(-1\frac{5}{8}\right) \div \left(-3\frac{2}{5}\right) =$

5. $2\frac{3}{8} \div \left(-5\frac{6}{9}\right) =$

6. $4\frac{2}{11} \div \left(-4\frac{3}{12}\right) =$

7. $\left(-5\frac{2}{9}\right) \div 1\frac{2}{7} =$

8. $\frac{1}{3} \div \left(-1\frac{6}{7}\right) =$

9. $\left(-3\frac{2}{7}\right) \div \left(-3\frac{1}{9}\right) =$

10. $\left(-1\frac{10}{12}\right) \div 5\frac{6}{11} =$

Dividing Negative Mixed Fractions (D) Answers

Name: _____

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Score: _____

Calculate each quotient.

$$1. \quad 1\frac{1}{4} \div \left(-3\frac{6}{9}\right) = \frac{5}{4} \div \left(-\frac{33}{9}\right) = \frac{5}{4} \times \left(-\frac{9}{33}\right) = \left(-\frac{45}{132}\right) = \left(-\frac{15}{44}\right)$$

$$2. \quad \left(-5\frac{1}{2}\right) \div 2\frac{5}{9} = \left(-\frac{11}{2}\right) \div \frac{23}{9} = \left(-\frac{11}{2}\right) \times \frac{9}{23} = \left(-\frac{99}{46}\right) = \left(-2\frac{7}{46}\right)$$

$$3. \quad \left(-3\frac{1}{2}\right) \div \left(-1\frac{3}{7}\right) = \left(-\frac{7}{2}\right) \div \left(-\frac{10}{7}\right) = \left(-\frac{7}{2}\right) \times \left(-\frac{7}{10}\right) = \frac{49}{20} = 2\frac{9}{20}$$

$$4. \quad \left(-1\frac{5}{8}\right) \div \left(-3\frac{2}{5}\right) = \left(-\frac{13}{8}\right) \div \left(-\frac{17}{5}\right) = \left(-\frac{13}{8}\right) \times \left(-\frac{5}{17}\right) = \frac{65}{136}$$

$$5. \quad 2\frac{3}{8} \div \left(-5\frac{6}{9}\right) = \frac{19}{8} \div \left(-\frac{51}{9}\right) = \frac{19}{8} \times \left(-\frac{9}{51}\right) = \left(-\frac{171}{408}\right) = \left(-\frac{57}{136}\right)$$

$$6. \quad 4\frac{2}{11} \div \left(-4\frac{3}{12}\right) = \frac{46}{11} \div \left(-\frac{51}{12}\right) = \frac{46}{11} \times \left(-\frac{12}{51}\right) = \left(-\frac{552}{561}\right) = \left(-\frac{184}{187}\right)$$

$$7. \quad \left(-5\frac{2}{9}\right) \div 1\frac{2}{7} = \left(-\frac{47}{9}\right) \div \frac{9}{7} = \left(-\frac{47}{9}\right) \times \frac{7}{9} = \left(-\frac{329}{81}\right) = \left(-4\frac{5}{81}\right)$$

$$8. \quad \frac{1}{3} \div \left(-1\frac{6}{7}\right) = \frac{1}{3} \div \left(-\frac{13}{7}\right) = \frac{1}{3} \times \left(-\frac{7}{13}\right) = \left(-\frac{7}{39}\right)$$

$$9. \quad \left(-3\frac{2}{7}\right) \div \left(-3\frac{1}{9}\right) = \left(-\frac{23}{7}\right) \div \left(-\frac{28}{9}\right) = \left(-\frac{23}{7}\right) \times \left(-\frac{9}{28}\right) = \frac{207}{196} = 1\frac{11}{196}$$

$$10. \quad \left(-1\frac{10}{12}\right) \div 5\frac{6}{11} = \left(-\frac{22}{12}\right) \div \frac{61}{11} = \left(-\frac{22}{12}\right) \times \frac{11}{61} = \left(-\frac{242}{732}\right) = \left(-\frac{121}{366}\right)$$