

Dividing Negative Mixed Fractions (I)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

1. $\left(-4\frac{2}{3}\right) \div 2\frac{7}{10} =$

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

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

4. $3\frac{3}{5} \div \left(-4\frac{5}{9}\right) =$

5. $\frac{3}{7} \div \left(-5\frac{6}{8}\right) =$

6. $\frac{3}{5} \div \left(-2\frac{2}{7}\right) =$

7. $5\frac{2}{11} \div \left(-2\frac{8}{9}\right) =$

8. $\left(-4\frac{2}{8}\right) \div \left(-4\frac{5}{7}\right) =$

9. $\left(-3\frac{6}{7}\right) \div \left(-1\frac{3}{5}\right) =$

10. $\left(-2\frac{1}{3}\right) \div \left(-5\frac{5}{11}\right) =$

Dividing Negative Mixed Fractions (I) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

$$1. \quad \left(-4\frac{2}{3}\right) \div 2\frac{7}{10} = \left(-\frac{14}{3}\right) \div \frac{27}{10} = \left(-\frac{14}{3}\right) \times \frac{10}{27} = \left(-\frac{140}{81}\right) = \left(-1\frac{59}{81}\right)$$

$$2. \quad \left(-4\frac{1}{2}\right) \div \left(-5\frac{2}{3}\right) = \left(-\frac{9}{2}\right) \div \left(-\frac{17}{3}\right) = \left(-\frac{9}{2}\right) \times \left(-\frac{3}{17}\right) = \frac{27}{34}$$

$$3. \quad \left(-4\frac{3}{6}\right) \div \left(-4\frac{6}{11}\right) = \left(-\frac{27}{6}\right) \div \left(-\frac{50}{11}\right) = \left(-\frac{27}{6}\right) \times \left(-\frac{11}{50}\right) = \frac{297}{300} = \frac{99}{100}$$

$$4. \quad 3\frac{3}{5} \div \left(-4\frac{5}{9}\right) = \frac{18}{5} \div \left(-\frac{41}{9}\right) = \frac{18}{5} \times \left(-\frac{9}{41}\right) = \left(-\frac{162}{205}\right)$$

$$5. \quad \frac{3}{7} \div \left(-5\frac{6}{8}\right) = \frac{3}{7} \div \left(-\frac{46}{8}\right) = \frac{3}{7} \times \left(-\frac{8}{46}\right) = \left(-\frac{24}{322}\right) = \left(-\frac{12}{161}\right)$$

$$6. \quad \frac{3}{5} \div \left(-2\frac{2}{7}\right) = \frac{3}{5} \div \left(-\frac{16}{7}\right) = \frac{3}{5} \times \left(-\frac{7}{16}\right) = \left(-\frac{21}{80}\right)$$

$$7. \quad 5\frac{2}{11} \div \left(-2\frac{8}{9}\right) = \frac{57}{11} \div \left(-\frac{26}{9}\right) = \frac{57}{11} \times \left(-\frac{9}{26}\right) = \left(-\frac{513}{286}\right) = \left(-1\frac{227}{286}\right)$$

$$8. \quad \left(-4\frac{2}{8}\right) \div \left(-4\frac{5}{7}\right) = \left(-\frac{34}{8}\right) \div \left(-\frac{33}{7}\right) = \left(-\frac{34}{8}\right) \times \left(-\frac{7}{33}\right) = \frac{238}{264} = \frac{119}{132}$$

$$9. \quad \left(-3\frac{6}{7}\right) \div \left(-1\frac{3}{5}\right) = \left(-\frac{27}{7}\right) \div \left(-\frac{8}{5}\right) = \left(-\frac{27}{7}\right) \times \left(-\frac{5}{8}\right) = \frac{135}{56} = 2\frac{23}{56}$$

$$10. \quad \left(-2\frac{1}{3}\right) \div \left(-5\frac{5}{11}\right) = \left(-\frac{7}{3}\right) \div \left(-\frac{60}{11}\right) = \left(-\frac{7}{3}\right) \times \left(-\frac{11}{60}\right) = \frac{77}{180}$$