

Dividing Negative Mixed Fractions (J)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

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

2. $\left(-5\frac{3}{9}\right) \div \left(-4\frac{7}{10}\right) =$

3. $\left(-4\frac{4}{11}\right) \div 4\frac{1}{12} =$

4. $\left(-4\frac{1}{8}\right) \div \left(-1\frac{1}{9}\right) =$

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

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

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

8. $\left(-2\frac{1}{6}\right) \div \left(-4\frac{2}{5}\right) =$

9. $\left(-2\frac{3}{12}\right) \div 5\frac{4}{5} =$

10. $\left(-1\frac{6}{9}\right) \div 4\frac{3}{5} =$

Dividing Negative Mixed Fractions (J) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

$$1. \quad \left(-4\frac{2}{5}\right) \div \left(-3\frac{1}{8}\right) = \left(-\frac{22}{5}\right) \div \left(-\frac{25}{8}\right) = \left(-\frac{22}{5}\right) \times \left(-\frac{8}{25}\right) = \frac{176}{125} = 1\frac{51}{125}$$

$$2. \quad \left(-5\frac{3}{9}\right) \div \left(-4\frac{7}{10}\right) = \left(-\frac{48}{9}\right) \div \left(-\frac{47}{10}\right) = \left(-\frac{48}{9}\right) \times \left(-\frac{10}{47}\right) = \frac{480}{423} = \frac{160}{141} = 1\frac{19}{141}$$

$$3. \quad \left(-4\frac{4}{11}\right) \div 4\frac{1}{12} = \left(-\frac{48}{11}\right) \div \frac{49}{12} = \left(-\frac{48}{11}\right) \times \frac{12}{49} = \left(-\frac{576}{539}\right) = \left(-1\frac{37}{539}\right)$$

$$4. \quad \left(-4\frac{1}{8}\right) \div \left(-1\frac{1}{9}\right) = \left(-\frac{33}{8}\right) \div \left(-\frac{10}{9}\right) = \left(-\frac{33}{8}\right) \times \left(-\frac{9}{10}\right) = \frac{297}{80} = 3\frac{57}{80}$$

$$5. \quad \left(-5\frac{5}{7}\right) \div \left(-5\frac{7}{8}\right) = \left(-\frac{40}{7}\right) \div \left(-\frac{47}{8}\right) = \left(-\frac{40}{7}\right) \times \left(-\frac{8}{47}\right) = \frac{320}{329}$$

$$6. \quad \left(-5\frac{2}{8}\right) \div 2\frac{5}{9} = \left(-\frac{42}{8}\right) \div \frac{23}{9} = \left(-\frac{42}{8}\right) \times \frac{9}{23} = \left(-\frac{378}{184}\right) = \left(-\frac{189}{92}\right) = \left(-2\frac{5}{92}\right)$$

$$7. \quad \left(-3\frac{1}{3}\right) \div \left(-3\frac{1}{2}\right) = \left(-\frac{10}{3}\right) \div \left(-\frac{7}{2}\right) = \left(-\frac{10}{3}\right) \times \left(-\frac{2}{7}\right) = \frac{20}{21}$$

$$8. \quad \left(-2\frac{1}{6}\right) \div \left(-4\frac{2}{5}\right) = \left(-\frac{13}{6}\right) \div \left(-\frac{22}{5}\right) = \left(-\frac{13}{6}\right) \times \left(-\frac{5}{22}\right) = \frac{65}{132}$$

$$9. \quad \left(-2\frac{3}{12}\right) \div 5\frac{4}{5} = \left(-\frac{27}{12}\right) \div \frac{29}{5} = \left(-\frac{27}{12}\right) \times \frac{5}{29} = \left(-\frac{135}{348}\right) = \left(-\frac{45}{116}\right)$$

$$10. \quad \left(-1\frac{6}{9}\right) \div 4\frac{3}{5} = \left(-\frac{15}{9}\right) \div \frac{23}{5} = \left(-\frac{15}{9}\right) \times \frac{5}{23} = \left(-\frac{75}{207}\right) = \left(-\frac{25}{69}\right)$$