

Dividing Negative Mixed Fractions (D)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

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

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

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

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

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

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

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

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

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

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

Dividing Negative Mixed Fractions (D) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

$$1. \quad \frac{1}{5} \div \left(-5\frac{2}{4}\right) = \frac{1}{5} \div \left(-\frac{22}{4}\right) = \frac{1}{5} \times \left(-\frac{4}{22}\right) = \left(-\frac{4}{110}\right) = \left(-\frac{2}{55}\right)$$

$$2. \quad \left(-4\frac{3}{4}\right) \div \left(-4\frac{2}{5}\right) = \left(-\frac{19}{4}\right) \div \left(-\frac{22}{5}\right) = \left(-\frac{19}{4}\right) \times \left(-\frac{5}{22}\right) = \frac{95}{88} = 1\frac{7}{88}$$

$$3. \quad 5\frac{3}{4} \div \left(-5\frac{3}{5}\right) = \frac{23}{4} \div \left(-\frac{28}{5}\right) = \frac{23}{4} \times \left(-\frac{5}{28}\right) = \left(-\frac{115}{112}\right) = \left(-1\frac{3}{112}\right)$$

$$4. \quad \left(-2\frac{2}{4}\right) \div \left(-1\frac{2}{5}\right) = \left(-\frac{10}{4}\right) \div \left(-\frac{7}{5}\right) = \left(-\frac{10}{4}\right) \times \left(-\frac{5}{7}\right) = \frac{50}{28} = \frac{25}{14} = 1\frac{11}{14}$$

$$5. \quad 5\frac{1}{3} \div \left(-4\frac{1}{2}\right) = \frac{16}{3} \div \left(-\frac{9}{2}\right) = \frac{16}{3} \times \left(-\frac{2}{9}\right) = \left(-\frac{32}{27}\right) = \left(-1\frac{5}{27}\right)$$

$$6. \quad \left(-4\frac{1}{2}\right) \div 4\frac{1}{3} = \left(-\frac{9}{2}\right) \div \frac{13}{3} = \left(-\frac{9}{2}\right) \times \frac{3}{13} = \left(-\frac{27}{26}\right) = \left(-1\frac{1}{26}\right)$$

$$7. \quad \left(-3\frac{1}{2}\right) \div \left(-2\frac{2}{3}\right) = \left(-\frac{7}{2}\right) \div \left(-\frac{8}{3}\right) = \left(-\frac{7}{2}\right) \times \left(-\frac{3}{8}\right) = \frac{21}{16} = 1\frac{5}{16}$$

$$8. \quad \left(-1\frac{1}{2}\right) \div \left(-2\frac{3}{5}\right) = \left(-\frac{3}{2}\right) \div \left(-\frac{13}{5}\right) = \left(-\frac{3}{2}\right) \times \left(-\frac{5}{13}\right) = \frac{15}{26}$$

$$9. \quad \left(-3\frac{2}{3}\right) \div \left(-4\frac{1}{2}\right) = \left(-\frac{11}{3}\right) \div \left(-\frac{9}{2}\right) = \left(-\frac{11}{3}\right) \times \left(-\frac{2}{9}\right) = \frac{22}{27}$$

$$10. \quad \left(-3\frac{2}{6}\right) \div \left(-5\frac{2}{5}\right) = \left(-\frac{20}{6}\right) \div \left(-\frac{27}{5}\right) = \left(-\frac{20}{6}\right) \times \left(-\frac{5}{27}\right) = \frac{100}{162} = \frac{50}{81}$$