Dividing Negative Mixed Fractions (H)

Name: _____ Date: _____ Score: _____

Calculate each quotient.

1. $2\frac{5}{9} \div \left(-2\frac{6}{10}\right) =$

2. $\left(-3\frac{3}{5}\right) \div \left(-3\frac{8}{11}\right) =$

3. $2\frac{6}{7} \div \left(-5\frac{8}{11}\right) =$

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

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

6. $2\frac{3}{8} \div \left(-4\frac{6}{9}\right) =$

7. $\left(-2\frac{7}{10}\right) \div \left(-1\frac{2}{11}\right) =$

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

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

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

Dividing Negative Mixed Fractions (H) Answers

Name: _____ Date: _____ Score: _____

Calculate each quotient.

1. $2\frac{5}{9} \div \left(-2\frac{6}{10}\right) = \frac{23}{9} \div \left(-\frac{26}{10}\right) = \frac{23}{9} \times \left(-\frac{10}{26}\right) = \left(-\frac{230}{234}\right) = \left(-\frac{115}{117}\right)$

2. $\left(-3\frac{3}{5}\right) \div \left(-3\frac{8}{11}\right) = \left(-\frac{18}{5}\right) \div \left(-\frac{41}{11}\right) = \left(-\frac{18}{5}\right) \times \left(-\frac{11}{41}\right) = \frac{198}{205}$

3. $2\frac{6}{7} \div \left(-5\frac{8}{11}\right) = \frac{20}{7} \div \left(-\frac{63}{11}\right) = \frac{20}{7} \times \left(-\frac{11}{63}\right) = \left(-\frac{220}{441}\right)$

4. $\left(-5\frac{1}{2}\right) \div \left(-1\frac{2}{7}\right) = \left(-\frac{11}{2}\right) \div \left(-\frac{9}{7}\right) = \left(-\frac{11}{2}\right) \times \left(-\frac{7}{9}\right) = \frac{77}{18} = 4\frac{5}{18}$

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

6. $2\frac{3}{8} \div \left(-4\frac{6}{9}\right) = \frac{19}{8} \div \left(-\frac{42}{9}\right) = \frac{19}{8} \times \left(-\frac{9}{42}\right) = \left(-\frac{171}{336}\right) = \left(-\frac{57}{112}\right)$

7. $\left(-2\frac{7}{10}\right) \div \left(-1\frac{2}{11}\right) = \left(-\frac{27}{10}\right) \div \left(-\frac{13}{11}\right) = \left(-\frac{27}{10}\right) \times \left(-\frac{11}{13}\right) = \frac{297}{130} = 2\frac{37}{130}$

8. $\left(-3\frac{5}{9}\right) \div \left(-3\frac{5}{10}\right) = \left(-\frac{32}{9}\right) \div \left(-\frac{35}{10}\right) = \left(-\frac{32}{9}\right) \times \left(-\frac{10}{35}\right) = \frac{320}{315} = \frac{64}{63} = 1\frac{1}{63}$

9. $\left(-5\frac{1}{2}\right) \div \left(-2\frac{4}{5}\right) = \left(-\frac{11}{2}\right) \div \left(-\frac{14}{5}\right) = \left(-\frac{11}{2}\right) \times \left(-\frac{5}{14}\right) = \frac{55}{28} = 1\frac{27}{28}$

10. $\left(-2\frac{4}{8}\right) \div 5\frac{2}{3} = \left(-\frac{20}{8}\right) \div \frac{17}{3} = \left(-\frac{20}{8}\right) \times \frac{3}{17} = \left(-\frac{60}{136}\right) = \left(-\frac{15}{34}\right)$