Dividing Negative Mixed Fractions (I)

Calculate each quotient.

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

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

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

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

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

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

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

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

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

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

Dividing Negative Mixed Fractions (I) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

1. $\left(-3\frac{1}{2}\right) \div \frac{2}{5} = \left(-\frac{7}{2}\right) \div \frac{2}{5} = \left(-\frac{7}{2}\right) \times \frac{5}{2} = \left(-\frac{35}{4}\right) = \left(-8\frac{3}{4}\right)$

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

3. $\left(-1\frac{5}{6}\right) \div \left(-5\frac{2}{5}\right) = \left(-\frac{11}{6}\right) \div \left(-\frac{27}{5}\right) = \left(-\frac{11}{6}\right) \times \left(-\frac{5}{27}\right) = \frac{55}{162}$

4. $3\frac{5}{6} \div \left(-3\frac{3}{5}\right) = \frac{23}{6} \div \left(-\frac{18}{5}\right) = \frac{23}{6} \times \left(-\frac{5}{18}\right) = \left(-\frac{115}{108}\right) = \left(-1\frac{7}{108}\right)$

5. $\left(-2\frac{1}{2}\right) \div \left(-1\frac{4}{5}\right) = \left(-\frac{5}{2}\right) \div \left(-\frac{9}{5}\right) = \left(-\frac{5}{2}\right) \times \left(-\frac{5}{9}\right) = \frac{25}{18} = 1\frac{7}{18}$

6. $\left(-2\frac{1}{5}\right) \div \left(-4\frac{1}{3}\right) = \left(-\frac{11}{5}\right) \div \left(-\frac{13}{3}\right) = \left(-\frac{11}{5}\right) \times \left(-\frac{3}{13}\right) = \frac{33}{65}$

7. $\left(-5\frac{1}{2}\right) \div \left(-4\frac{1}{5}\right) = \left(-\frac{11}{2}\right) \div \left(-\frac{21}{5}\right) = \left(-\frac{11}{2}\right) \times \left(-\frac{5}{21}\right) = \frac{55}{42} = 1\frac{13}{42}$

8. $5\frac{4}{5} \div \left(-5\frac{5}{6}\right) = \frac{29}{5} \div \left(-\frac{35}{6}\right) = \frac{29}{5} \times \left(-\frac{6}{35}\right) = \left(-\frac{174}{175}\right)$

9. $\left(-2\frac{1}{2}\right) \div \left(-2\frac{1}{3}\right) = \left(-\frac{5}{2}\right) \div \left(-\frac{7}{3}\right) = \left(-\frac{5}{2}\right) \times \left(-\frac{3}{7}\right) = \frac{15}{14} = 1\frac{1}{14}$

10. $\left(-3\frac{3}{5}\right) \div 3\frac{5}{6} = \left(-\frac{18}{5}\right) \div \frac{23}{6} = \left(-\frac{18}{5}\right) \times \frac{6}{23} = \left(-\frac{108}{115}\right)$