

Dividing Negative Mixed Fractions (H)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

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

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

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

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

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

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

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

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

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

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

Dividing Negative Mixed Fractions (H) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

$$1. \quad \left(-5\frac{1}{5}\right) \div 1\frac{5}{6} = \left(-\frac{26}{5}\right) \div \frac{11}{6} = \left(-\frac{26}{5}\right) \times \frac{6}{11} = \left(-\frac{156}{55}\right) = \left(-2\frac{46}{55}\right)$$

$$2. \quad 2\frac{1}{6} \div \left(-4\frac{4}{5}\right) = \frac{13}{6} \div \left(-\frac{24}{5}\right) = \frac{13}{6} \times \left(-\frac{5}{24}\right) = \left(-\frac{65}{144}\right)$$

$$3. \quad \left(-5\frac{1}{2}\right) \div \left(-5\frac{1}{5}\right) = \left(-\frac{11}{2}\right) \div \left(-\frac{26}{5}\right) = \left(-\frac{11}{2}\right) \times \left(-\frac{5}{26}\right) = \frac{55}{52} = 1\frac{3}{52}$$

$$4. \quad \left(-1\frac{2}{5}\right) \div \left(-5\frac{4}{6}\right) = \left(-\frac{7}{5}\right) \div \left(-\frac{34}{6}\right) = \left(-\frac{7}{5}\right) \times \left(-\frac{6}{34}\right) = \frac{42}{170} = \frac{21}{85}$$

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

$$6. \quad \left(-5\frac{1}{2}\right) \div 2\frac{1}{3} = \left(-\frac{11}{2}\right) \div \frac{7}{3} = \left(-\frac{11}{2}\right) \times \frac{3}{7} = \left(-\frac{33}{14}\right) = \left(-2\frac{5}{14}\right)$$

$$7. \quad \left(-2\frac{2}{3}\right) \div \left(-1\frac{3}{4}\right) = \left(-\frac{8}{3}\right) \div \left(-\frac{7}{4}\right) = \left(-\frac{8}{3}\right) \times \left(-\frac{4}{7}\right) = \frac{32}{21} = 1\frac{11}{21}$$

$$8. \quad \left(-5\frac{2}{5}\right) \div \left(-5\frac{4}{6}\right) = \left(-\frac{27}{5}\right) \div \left(-\frac{34}{6}\right) = \left(-\frac{27}{5}\right) \times \left(-\frac{6}{34}\right) = \frac{162}{170} = \frac{81}{85}$$

$$9. \quad \left(-1\frac{1}{2}\right) \div \left(-2\frac{4}{5}\right) = \left(-\frac{3}{2}\right) \div \left(-\frac{14}{5}\right) = \left(-\frac{3}{2}\right) \times \left(-\frac{5}{14}\right) = \frac{15}{28}$$

$$10. \quad \left(-3\frac{2}{5}\right) \div \left(-3\frac{2}{4}\right) = \left(-\frac{17}{5}\right) \div \left(-\frac{14}{4}\right) = \left(-\frac{17}{5}\right) \times \left(-\frac{4}{14}\right) = \frac{68}{70} = \frac{34}{35}$$