

Dividing Negative Mixed Fractions (I)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

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

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

3. $3\frac{1}{2} \div \left(-3\frac{3}{11}\right) = \underline{\quad} \div \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad} = \underline{\quad}$

4. $\left(-2\frac{7}{11}\right) \div 3\frac{3}{10} = \underline{\quad} \div \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

5. $\left(-1\frac{2}{3}\right) \div \left(-4\frac{3}{10}\right) = \underline{\quad} \div \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad}$

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

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

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

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

10. $\left(-3\frac{4}{11}\right) \div \left(-2\frac{2}{7}\right) = \underline{\quad} \div \underline{\quad} = \underline{\quad} \times \underline{\quad} = \underline{\quad} = \underline{\quad}$

Dividing Negative Mixed Fractions (I) Answers

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Calculate each quotient.

$$1. \left(-3\frac{1}{2}\right) \div \left(-3\frac{5}{11}\right) = \left(-\frac{7}{2}\right) \div \left(-\frac{38}{11}\right) = \left(-\frac{7}{2}\right) \times \left(-\frac{11}{38}\right) = \frac{77}{76} = 1\frac{1}{76}$$

$$2. \left(-3\frac{1}{4}\right) \div \left(-1\frac{1}{3}\right) = \left(-\frac{13}{4}\right) \div \left(-\frac{4}{3}\right) = \left(-\frac{13}{4}\right) \times \left(-\frac{3}{4}\right) = \frac{39}{16} = 2\frac{7}{16}$$

$$3. 3\frac{1}{2} \div \left(-3\frac{3}{11}\right) = \frac{7}{2} \div \left(-\frac{36}{11}\right) = \frac{7}{2} \times \left(-\frac{11}{36}\right) = \left(-\frac{77}{72}\right) = \left(-2\frac{5}{72}\right)$$

$$4. \left(-2\frac{7}{11}\right) \div 3\frac{3}{10} = \left(-\frac{29}{11}\right) \div \frac{33}{10} = \left(-\frac{29}{11}\right) \times \frac{10}{33} = \left(-\frac{290}{363}\right)$$

$$5. \left(-1\frac{2}{3}\right) \div \left(-4\frac{3}{10}\right) = \left(-\frac{5}{3}\right) \div \left(-\frac{43}{10}\right) = \left(-\frac{5}{3}\right) \times \left(-\frac{10}{43}\right) = \frac{50}{129}$$

$$6. \left(-3\frac{1}{2}\right) \div 2\frac{2}{3} = \left(-\frac{7}{2}\right) \div \frac{8}{3} = \left(-\frac{7}{2}\right) \times \frac{3}{8} = \left(-\frac{21}{16}\right) = \left(-2\frac{5}{16}\right)$$

$$7. 3\frac{6}{7} \div \left(-2\frac{5}{6}\right) = \frac{27}{7} \div \left(-\frac{17}{6}\right) = \frac{27}{7} \times \left(-\frac{6}{17}\right) = \left(-\frac{162}{119}\right) = \left(-2\frac{43}{119}\right)$$

$$8. \left(-3\frac{1}{2}\right) \div \left(-2\frac{2}{5}\right) = \left(-\frac{7}{2}\right) \div \left(-\frac{12}{5}\right) = \left(-\frac{7}{2}\right) \times \left(-\frac{5}{12}\right) = \frac{35}{24} = 1\frac{11}{24}$$

$$9. \left(-3\frac{2}{5}\right) \div \left(-3\frac{1}{3}\right) = \left(-\frac{17}{5}\right) \div \left(-\frac{10}{3}\right) = \left(-\frac{17}{5}\right) \times \left(-\frac{3}{10}\right) = \frac{51}{50} = 1\frac{1}{50}$$

$$10. \left(-3\frac{4}{11}\right) \div \left(-2\frac{2}{7}\right) = \left(-\frac{37}{11}\right) \div \left(-\frac{16}{7}\right) = \left(-\frac{37}{11}\right) \times \left(-\frac{7}{16}\right) = \frac{259}{176} = 1\frac{83}{176}$$