

Dividing Negative Mixed Fractions (J)

Name: _____

Date: _____

Score: _____

Calculate each quotient.

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

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

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

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

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

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

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

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

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

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

Dividing Negative Mixed Fractions (J) Answers

Name: _____

Date: _____

Score: _____

Calculate each quotient.

$$1. \quad \left(-5\frac{3}{4}\right) \div 4\frac{1}{5} = \left(-\frac{23}{4}\right) \div \frac{21}{5} = \left(-\frac{23}{4}\right) \times \frac{5}{21} = \left(-\frac{115}{84}\right) = \left(-1\frac{31}{84}\right)$$

$$2. \quad \left(-3\frac{2}{3}\right) \div \left(-3\frac{2}{4}\right) = \left(-\frac{11}{3}\right) \div \left(-\frac{14}{4}\right) = \left(-\frac{11}{3}\right) \times \left(-\frac{4}{14}\right) = \frac{44}{42} = \frac{22}{21} = 1\frac{1}{21}$$

$$3. \quad \left(-1\frac{5}{6}\right) \div \left(-4\frac{1}{5}\right) = \left(-\frac{11}{6}\right) \div \left(-\frac{21}{5}\right) = \left(-\frac{11}{6}\right) \times \left(-\frac{5}{21}\right) = \frac{55}{126}$$

$$4. \quad \left(-3\frac{1}{3}\right) \div 4\frac{3}{4} = \left(-\frac{10}{3}\right) \div \frac{19}{4} = \left(-\frac{10}{3}\right) \times \frac{4}{19} = \left(-\frac{40}{57}\right)$$

$$5. \quad \frac{1}{4} \div \left(-2\frac{2}{3}\right) = \frac{1}{4} \div \left(-\frac{8}{3}\right) = \frac{1}{4} \times \left(-\frac{3}{8}\right) = \left(-\frac{3}{32}\right)$$

$$6. \quad \left(-1\frac{3}{6}\right) \div \left(-4\frac{2}{5}\right) = \left(-\frac{9}{6}\right) \div \left(-\frac{22}{5}\right) = \left(-\frac{9}{6}\right) \times \left(-\frac{5}{22}\right) = \frac{45}{132} = \frac{15}{44}$$

$$7. \quad \left(-4\frac{2}{3}\right) \div \left(-4\frac{3}{4}\right) = \left(-\frac{14}{3}\right) \div \left(-\frac{19}{4}\right) = \left(-\frac{14}{3}\right) \times \left(-\frac{4}{19}\right) = \frac{56}{57}$$

$$8. \quad \left(-3\frac{1}{2}\right) \div \frac{2}{3} = \left(-\frac{7}{2}\right) \div \frac{2}{3} = \left(-\frac{7}{2}\right) \times \frac{3}{2} = \left(-\frac{21}{4}\right) = \left(-5\frac{1}{4}\right)$$

$$9. \quad \left(-5\frac{1}{6}\right) \div \left(-3\frac{3}{5}\right) = \left(-\frac{31}{6}\right) \div \left(-\frac{18}{5}\right) = \left(-\frac{31}{6}\right) \times \left(-\frac{5}{18}\right) = \frac{155}{108} = 1\frac{47}{108}$$

$$10. \quad \left(-5\frac{2}{4}\right) \div \left(-2\frac{1}{3}\right) = \left(-\frac{22}{4}\right) \div \left(-\frac{7}{3}\right) = \left(-\frac{22}{4}\right) \times \left(-\frac{3}{7}\right) = \frac{66}{28} = \frac{33}{14} = 2\frac{5}{14}$$