Worksheet #8

Dividing Rational Numbers

Learning Goal: Students will be able to divide and simplify rational numbers.

Example:

$$1\frac{1}{5} \div \frac{9}{5} = \frac{2}{3}$$

a) $\dfrac{-22}{5} \div -1\dfrac{1}{10} =$

b) $\dfrac{-9}{2} \div -1\dfrac{2}{8} =$

c) $\dfrac{-9}{4} \div -1\dfrac{2}{6} =$

d) $\dfrac{-11}{8} \div 5\dfrac{2}{4} =$

e) $\dfrac{-7}{3} \div 2\dfrac{1}{3} =$

f) $-1\dfrac{1}{2} \div -\dfrac{7}{6} =$

g) $-1\dfrac{1}{3} \div \dfrac{16}{9} =$

h) $1\dfrac{2}{7} \div \dfrac{12}{7} =$

i) $-5\dfrac{1}{4} \div \dfrac{1}{8} =$

j) $-2\dfrac{2}{3} \div \dfrac{5}{2} =$

Worksheet #8 (Answers)

Dividing Rational Numbers

MeandMath
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Learning Goal: Students will be able to divide and simplify rational numbers.

Example:

$$1\frac{1}{5} \div \frac{9}{5} = \frac{2}{3}$$

a) $\dfrac{-22}{5} \div -1\dfrac{1}{10} =$ $\boxed{-44}$

f) $-1\dfrac{1}{2} \div -\dfrac{7}{6} =$ $\boxed{-\dfrac{3}{7}}$

b) $\dfrac{-9}{2} \div -1\dfrac{2}{8} =$ $\boxed{-18}$

g) $-1\dfrac{1}{3} \div \dfrac{16}{9} =$ $\boxed{-\dfrac{3}{16}}$

c) $\dfrac{-9}{4} \div -1\dfrac{2}{6} =$ $\boxed{\dfrac{27}{4}}$

h) $1\dfrac{2}{7} \div \dfrac{12}{7} =$ $\boxed{\dfrac{3}{4}}$

d) $\dfrac{-11}{8} \div 5\dfrac{2}{4} =$ $\boxed{-\dfrac{1}{4}}$

i) $-5\dfrac{1}{4} \div \dfrac{1}{8} =$ $\boxed{-10}$

e) $\dfrac{-7}{3} \div 2\dfrac{1}{3} =$ $\boxed{-1}$

j) $-2\dfrac{2}{3} \div \dfrac{5}{2} =$ $\boxed{-\dfrac{16}{15}}$