

Steps for Dividing Fraction

- 1) use reciprocal and change to multiplication.
- 2) Multiply numerators, multiply denominators.
- 3) Reduce

Keep Change Flip

Reciprocal

Reciprocal: The multiplicative inverse of a number.
(what you multiply a fraction by to get 1).
(ex) $\frac{2}{3} * \boxed{\frac{3}{2}} = 1$

Find the reciprocal:

1) $\frac{2}{9}$

$$\frac{2}{9} * \boxed{\frac{9}{2}} = 1$$

2) 8

$$\frac{8}{1} * \boxed{\frac{1}{8}} = 1$$

3) $\frac{1}{6}$

$$\frac{1}{6} * \boxed{\frac{6}{1}} = 1$$

4) 0.1

$$\frac{1}{10} * \boxed{\frac{10}{1}} = 1$$

Dividing Fractions

$$1) -\frac{2}{5} \div \frac{4}{7}$$

$$-\frac{2}{5} * \frac{7}{4} = \boxed{-\frac{7}{10}}$$

$$2) \frac{2}{15} \div \left(-\frac{8}{25}\right)$$

$$\frac{2}{15} * -\frac{25}{8} = \boxed{-\frac{5}{12}}$$

$$3) -\frac{16}{21} \div \frac{18}{1}$$

$$-\frac{16}{21} * \frac{1}{18} = \boxed{-\frac{8}{189}}$$

$$4) \frac{27}{1} \div \frac{3}{11}$$

$$\frac{27}{1} * \frac{11}{3} = \frac{99}{1} = \boxed{99}$$

$$5) \frac{3}{8} \div 9\frac{1}{6}$$

$$\frac{3}{8} \div \frac{55}{6}$$

$$\frac{3}{8} * \frac{6}{55} = \boxed{\frac{9}{220}}$$

$$6) 4\frac{2}{3} \div 3\frac{4}{5}$$

$$\frac{14}{3} \div \frac{19}{5}$$

$$\frac{14}{3} * \frac{5}{19} = \frac{70}{57} = \boxed{1\frac{13}{57}}$$

$$7) -\frac{4}{9n} \div \frac{1}{15n}$$

$$-\frac{4}{9n} * \frac{15n}{1} = -\frac{20}{3} = \boxed{-6\frac{2}{3}}$$

$$8) -\frac{15}{18} \div \frac{25n}{1}$$

$$-\frac{15}{18} * \frac{1}{25n} = -\frac{3}{90n} = \boxed{-\frac{1}{30n}}$$

Homework: Why Was the Unemployed Dolphin Trainer So Sad? wkst.

Adapted: #1-10 on Why Was the Unemployed Dolphin Trainer So Sad? wkst.