

Day 8: Multiplying & Dividing Fractions**Multiplying Fractions**

To multiply fractions, simply multiply the numerators and multiply the denominators.

Example 9: $\frac{1}{7} \times \frac{2}{3}$	Example 10: $\frac{-1}{4} \times \frac{8}{3}$
Example 11: $\left(\frac{1}{2}\right)^2$	Example 12: $\left(1\frac{3}{4}\right)^3$

Dividing Fractions

To divide fractions, we multiply by the reciprocal. The reciprocal is flip the fraction.

Example 13: $\frac{1}{2} \div \frac{8}{3}$	Example 14: $\frac{-1}{2} \div \frac{5}{-4}$
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Practice: Operations with Fractions

Evaluate the following: *final answers should be in lowest terms

i. $\frac{2}{5} \times \frac{1}{4}$

j. $\frac{-2}{5} \times \frac{3}{4}$

k. $\frac{-4}{5} \times \frac{3}{-4}$

l. $2\frac{2}{5} \times \frac{-1}{4}$

m. $\left(\frac{3}{4}\right)^2$

n. $\left(\frac{-3}{5}\right)^2$

o. $\left(2\frac{1}{2}\right)^2$

p. $\left(-1\frac{1}{2}\right)^3$

q. $\frac{2}{5} \div \frac{1}{4}$

r. $3 \div \frac{1}{4}$

s. $3\frac{1}{5} \div 2$

t. $3\frac{2}{5} \div -2\frac{1}{4}$

ANSWERS: i. $\frac{1}{10}$ j. $\frac{-3}{10}$ k. $\frac{3}{5}$ l. $\frac{-3}{5}$ m. $\frac{9}{16}$ n. $\frac{9}{25}$ o. $\frac{25}{4}$ p. $\frac{-27}{8}$ q. $\frac{8}{5}$ r. 12 s. $\frac{8}{5}$ t. $\frac{-68}{45}$