

# Dividing Fractions 1:

## Divide a Fraction By a Whole Number

To understand how to divide fractions by a whole number, think of **dividing pieces of pie** among a certain number of people.

You can always check each division by multiplication. If you multiply the answer by the divisor, you should get back the original dividend.

$\frac{4}{5}$  of a pie is divided between two people.



$$\frac{4}{5} \div 2 = \frac{2}{5} \quad \text{Check: } \frac{2}{5} \times 2 = \frac{4}{5}$$

$\frac{6}{8}$  is divided among three people.



$$\frac{6}{8} \div 3 = \frac{2}{8} \quad \text{Check: } \frac{2}{8} \times 3 = \frac{6}{8}$$

1. Color each person's share with a different color, and write a division sentence.

a.  $\frac{4}{6}$  of a pie is divided among four people.



b.  $\frac{3}{5}$  of a pie is divided among three people.



c.  $\frac{6}{9}$  of a pie is divided between two people.



d.  $\frac{6}{10}$  of a pie is divided among three people.



e.  $\frac{6}{12}$  of a pie is divided among three people.



f.  $\frac{15}{20}$  of a pie is divided among five people.



2. Write a division sentence for each problem and solve it.

a. There is  $\frac{6}{9}$  of a pizza left over, and three people share it equally. How much does each one get?

b. A cake was cut into 20 pieces. There are 12 pieces left over, and four people share them equally. What fraction of the original cake does each person get?