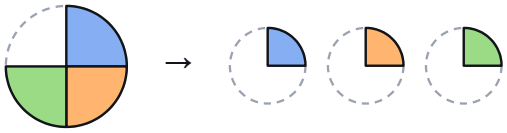
Names (pair) _____ Date _____

Dividing a Fraction by a Whole Number

Example



Three quarters are shared among three children. Each child gets one piece: one quarter.

The pieces stay the same size, so the denominator stays the same.

$$\frac{3}{4} \div 3 = \frac{3 \div 3}{4} = \frac{1}{4}$$

Remember

When the numerator can be divided, **divide the numerator** and **keep the denominator**: $\frac{4}{5} \div 2 = \frac{2}{5}$.

1 ON YOUR OWN Share the disc pieces into equal piles and write how much is in each.

a)



$$\frac{2}{3} \div 2 = \frac{\square}{3}$$

b)



$$\frac{4}{5} \div 4 = \frac{\square}{5}$$

c)



$$\frac{6}{8} \div 3 = \frac{\square}{8}$$

d)



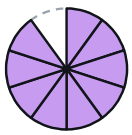
$$\frac{3}{5} \div 3 = \frac{\square}{5}$$

e)



$$\frac{6}{7} \div 2 = \frac{\square}{7}$$

f)



$$\frac{9}{10} \div 3 = \frac{\square}{10}$$

Names (group) _____ Date _____

2 IN PAIRS **Sharer and recorder.** One student deals the pieces onto plates, the other writes. Swap roles in every row.

$\frac{8}{9} \div 4 = \frac{\square}{9}$ $\quad\quad$ $\frac{10}{12} \div 5 = \frac{\square}{12}$

$\frac{4}{6} \div 2 = \frac{\square}{6}$ $\quad\quad$ $\frac{6}{10} \div 3 = \frac{\square}{10}$

3 IN A GROUP **Stories.** Write the division and work it out. Each member of the group explains one story with discs.

Three friends share $\frac{3}{4}$ of a pizza. How much does each get?

Answer: _____

We pour $\frac{4}{5}$ l of juice equally into two glasses. How much juice is in one glass?

Answer: _____

Three children share $\frac{6}{8}$ of a chocolate bar. How much does each child get?

Answer: _____

4 IN A GROUP **Discuss.** Why does the denominator stay the same when we share?

_____

_____

★ ON YOUR OWN **Exit card.** $\frac{6}{7} \div 3 = \frac{\square}{\square}$