Names (pair) _____ Date _____

Dividing a Whole Number by a Unit Fraction

Example



How many quarters fit into 3 wholes?

One whole has 4 quarters, three wholes have 3 × 4 = 12 quarters.

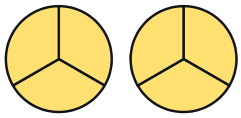
$3 \div \frac{1}{4} = 12$ **because** $12 \times \frac{1}{4} = 3$

Remember

Dividing by $\frac{1}{4}$ means asking **how many quarters fit** into the number. The answer is **bigger** than the number we divide: $3 \div \frac{1}{4} = 3 \times 4$.

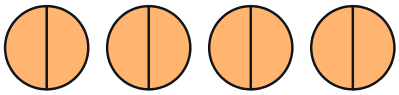
1 ON YOUR OWN Count how many pieces fit and write it.

a)



$2 \div \frac{1}{3} = \square$

b)



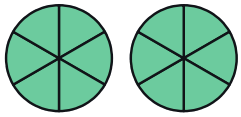
$4 \div \frac{1}{2} = \square$

c)



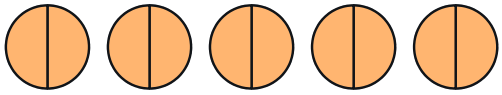
$3 \div \frac{1}{5} = \square$

d)



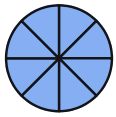
$2 \div \frac{1}{6} = \square$

e)



$5 \div \frac{1}{2} = \square$

f)



$1 \div \frac{1}{8} = \square$

The Fraction Discs app · otooly.com/fraction-discs

Fill the wholes with equal pieces and count them.

Names (group) _____ Date _____

2 IN PAIRS **The pattern.** One student builds with discs and counts, the other writes the multiplication. Swap roles in every row.

Division	In one whole	Answer	Multiplying
$6 \div \frac{1}{3}$	☐	☐	$6 \times$ ☐ $=$ ☐
$4 \div \frac{1}{5}$	☐	☐	$4 \times$ ☐ $=$ ☐
$7 \div \frac{1}{2}$	☐	☐	$7 \times$ ☐ $=$ ☐
$10 \div \frac{1}{4}$	☐	☐	$10 \times$ ☐ $=$ ☐

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

From 3 l of juice we fill glasses of $\frac{1}{4}$ l. How many glasses do we fill?

Answer: _____

A 5 m ribbon is cut into pieces of $\frac{1}{2}$ m. How many pieces are there?

Answer: _____

Four pizzas are cut into eighths. How many slices are there?

Answer: _____

4 IN A GROUP **Discuss.** Why is $6 \div \frac{1}{3}$ bigger than 6, but $6 \div 3$ smaller than 6?

_____

_____

★ ON YOUR OWN **Exit card.** $5 \div \frac{1}{3} =$ ☐