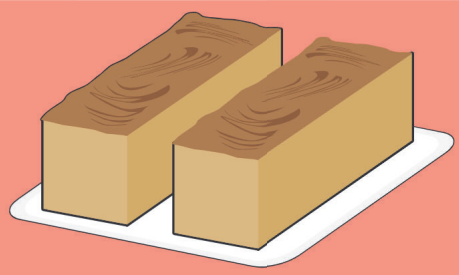


Step In

Comparing Multiplication and Division Involving Decimal Fractions

What word problem involving 2 loaves of banana bread could you write to match each of these equations?



$2 \div 10 =$ $2 \div 1 =$
 $2 \div 0.1 =$ $2 \div 0.01 =$

How could you figure out the answers?

Write the answers in this place-value chart.

What do you notice?

Why does it make sense that dividing by 0.01 has the greatest quotient?

	H	T	O	t
$2 \div 10 =$.	
$2 \div 1 =$.	
$2 \div 0.1 =$.	
$2 \div 0.01 =$.	

Step Up

1. Use a pattern to help you write the answers in the place-value charts below.

Multiplication

Division

a.

	Th	H	T	O	t	h
$40 \times 10 =$.		
$40 \times 1 =$.		
$40 \times 0.1 =$.		
$40 \times 0.01 =$.		

b.

	Th	H	T	O	t	h
$40 \div 10 =$.		
$40 \div 1 =$.		
$40 \div 0.1 =$.		
$40 \div 0.01 =$.		

c.

	Th	H	T	O	t	h
$60 \times 10 =$.		
$60 \times 1 =$.		
$60 \times 0.1 =$.		
$60 \times 0.01 =$.		

d.

	Th	H	T	O	t	h
$60 \div 10 =$.		
$60 \div 1 =$.		
$60 \div 0.1 =$.		
$60 \div 0.01 =$.		

2. Write the answers in these place-value charts.

Multiplication

a.	Th	H	T	O	t	h
$80 \times 20 =$.		
$80 \times 2 =$.		
$80 \times 0.2 =$.		
$80 \times 0.02 =$.		

Division

b.	Th	H	T	O	t	h
$80 \div 20 =$.		
$80 \div 2 =$.		
$80 \div 0.2 =$.		
$80 \div 0.02 =$.		

3. a. Look at the multiplication chart above. What do you notice when one factor decreases?

b. Look at the division chart above. What do you notice when one factor decreases?

Step Ahead

Color **blue** the expressions that equal 300. Color **red** the expressions that equal 30. Some expressions equal neither amount.

$1,200 \div 4$

$120 \div 0.4$

$12 \div 0.4$

$120 \div 0.04$

$120 \div 4$

$1,200 \div 40$

$120 \div 40$

$12 \div 4$

Working Space