

DIVISION

When completing a division problem we understand that we are breaking something into parts. For example: $10 \div 2 = 5$. We have a thing(10) that we are breaking into parts(5). We never ask what is really happening. We should ask:

How many of something(DIVISOR) go into the first number(DIVIDEND) to get the number of parts(QUOTIENT)?

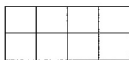
To summarize: $\text{DIVIDEND} \div \text{DIVISOR} = \text{QUOTIENT}$.

Fill in the blanks:

The number being divided into is called the _____.
The number doing the dividing is called the _____.
The answer to a division problem is the _____.

Example: $8 \div 2 = \underline{\quad}$ How many 2's go into 8? $\underline{\quad}$

Now try drawing this using squares. >>



In the example above, we divided a WHOLE number by another WHOLE number. We show how many 2's are in 8. We break 8 into 2's.

We can also divide a whole number by a fraction. We show how many of the fraction are in the whole number or we break the whole number into the specific fraction part.

Look at this:

$$1 \div \frac{1}{2} = ?$$

This is asking how many $\frac{1}{2}$'s are in 1 or how many $\frac{1}{2}$'s can we break 1 into? $\underline{\quad}$

How about using squares?



How about $2 \div \frac{1}{4}$ or how many $\frac{1}{4}$'s are in 2? $\underline{\quad}$



To sum up dividing a whole number by a fraction, we divide however many of the whole number there are into the specific fraction part.

Name _____

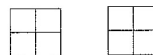
Done Together

5.NF.7b

Dividing Whole Numbers by Fractions

For the items that have pictures, show the division of the wholes to find your answer.

(#1) $2 \div \frac{1}{4} =$



(#2) $6 \div \frac{1}{2} =$



(#3) $5 \div \frac{1}{3} =$



(#4) $3 \div \frac{1}{9} =$



For the items that have no pictures, use a math calculation to find your answer.

(#5) $4 \div \frac{1}{6} =$

(#6) $2 \div \frac{1}{5} =$

(#7) $3 \div \frac{1}{4} =$

(#8) $8 \div \frac{1}{2} =$

(#9) $6 \div \frac{1}{3} =$