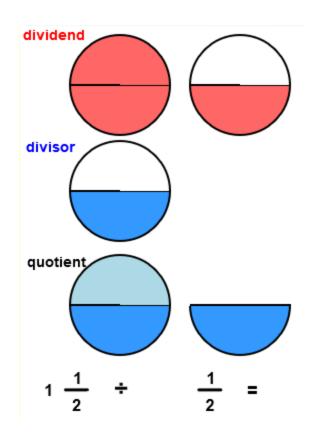
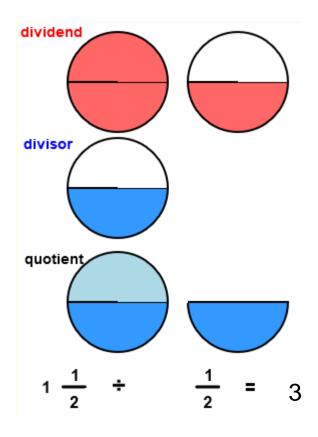
HOW TO DIVIDE FRACTIONS

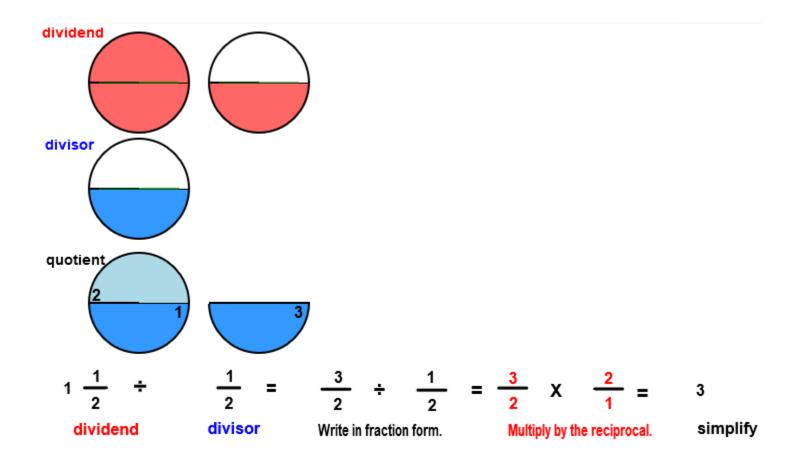
Introducing:

- dividend
- divisor
- quotient

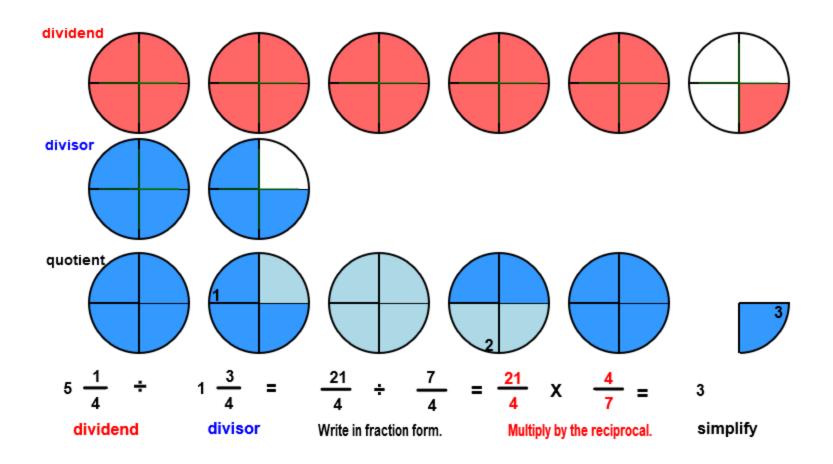




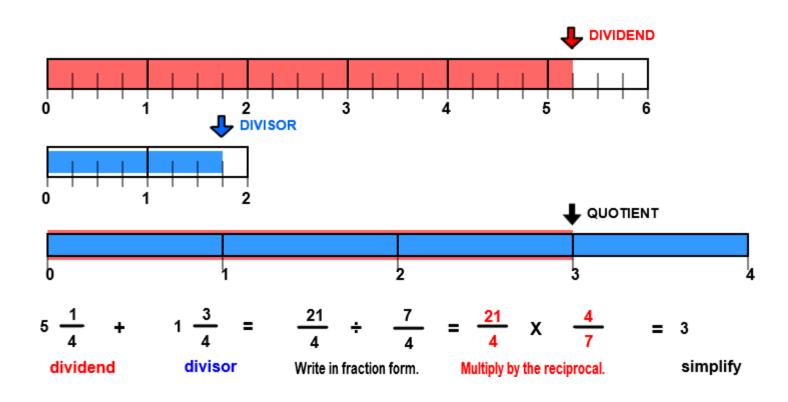
Division is a form of subtraction. This picture shows that the *divisor* $^{1}/_{2}$ can be subtracted 3 times from the *dividend* 1 $^{1}/_{2}$. A *quotient* 3 tells us how many times the *divisor* can be subtracted from the *dividend*.



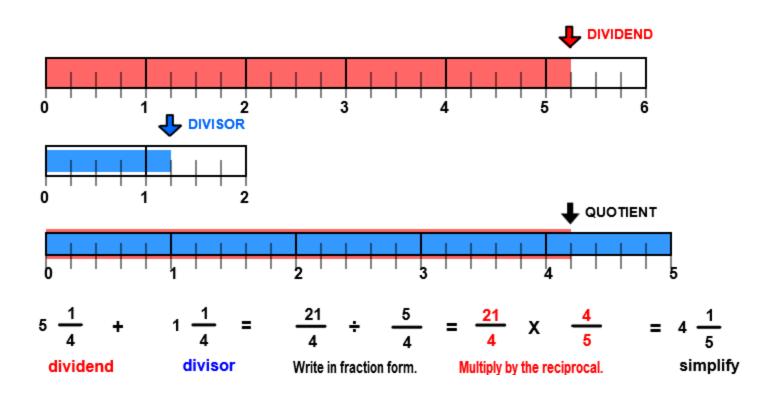
To calculate the *quotient*, first write the *dividend* and *divisor* in fraction form. Then multiply $^{3}/_{2}$ by the inverse of $^{1}/_{2}$. This gives a *quotient* of $^{3}/_{2}$ x $^{2}/_{1}$ or 3.



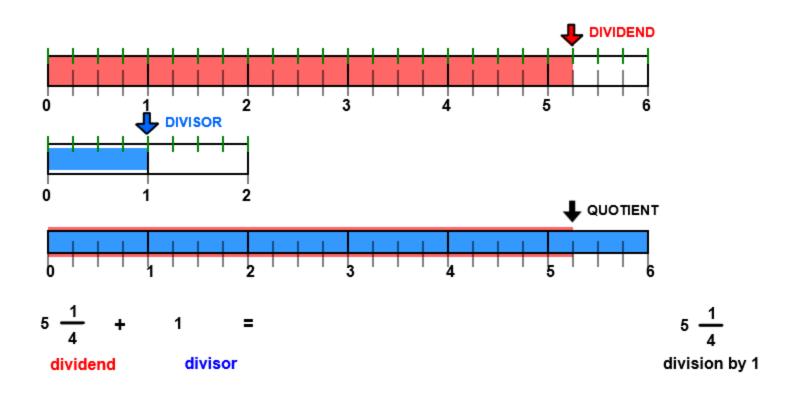
This picture shows that $1^{3}/_{4}$ can be subtracted from $5^{1}/_{4}$ three times.



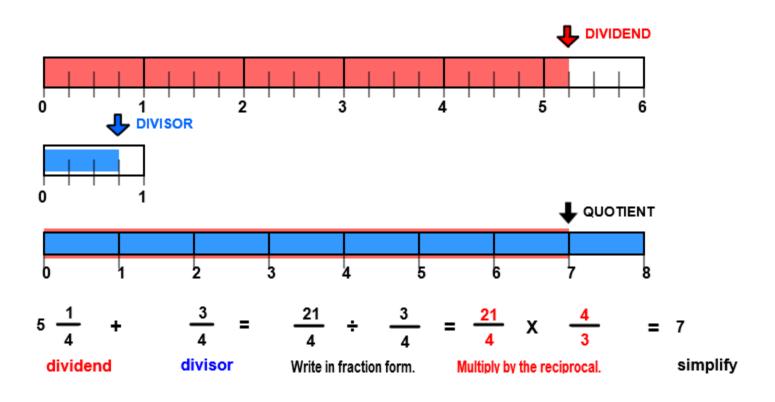
The same example with number lines shows that $1 \, ^{3}/_{4}$ fits into $5 \, ^{1}/_{4}$ three times.



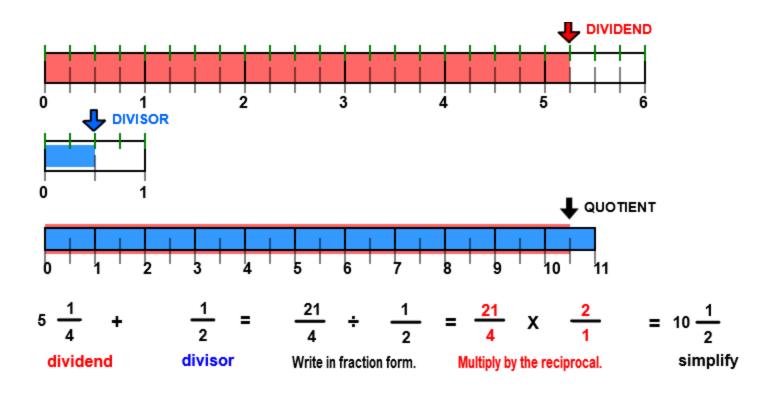
The divisor_has been decreased to $1^{1}/_{4}$. Notice the quotient is increased to $4^{1}/_{5}$. As the divisor decreases, the quotient increases.



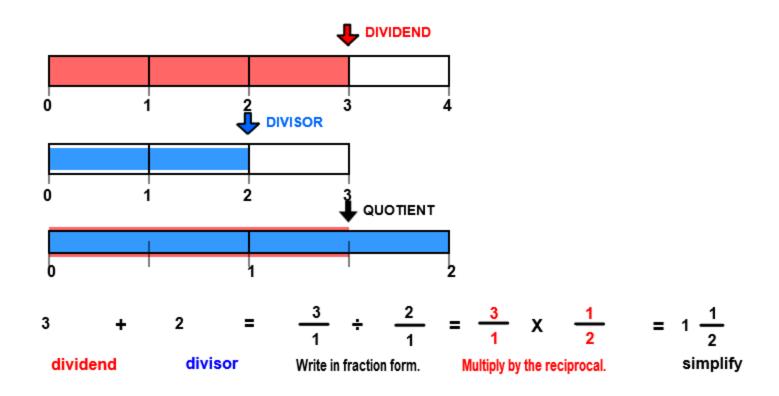
The *divisor* has been decreased to 1. Notice the *quotient* is increased to $5^{1}/_{4}$. Dividing by 1 gives a *quotient* equal to the *dividend*.



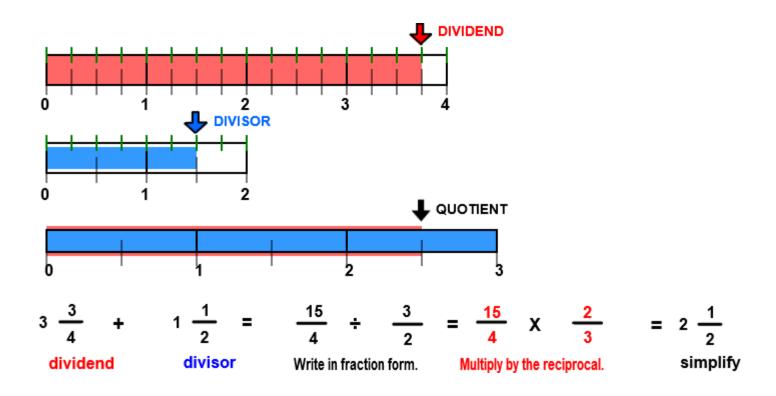
When the *divisor* is less than 1, the *quotient* is larger than the *dividend*.



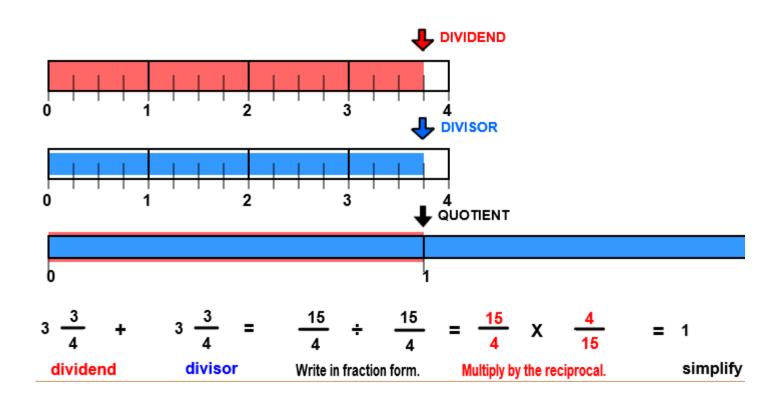
Decreasing the *divisor* to $\frac{1}{2}$ increases the *quotient* to $\frac{10}{2}$.



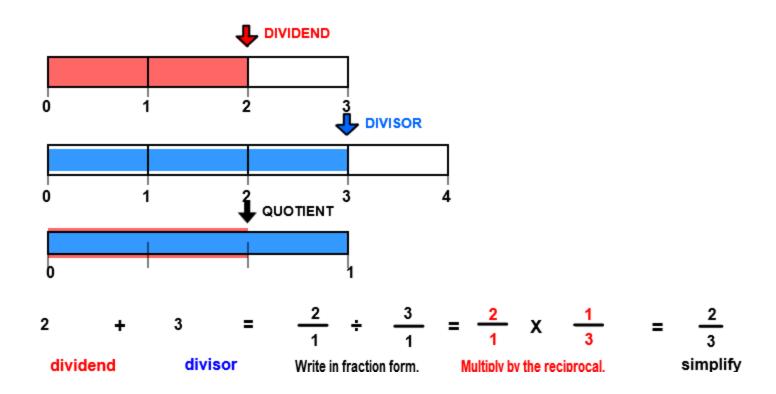
When the *divisor* is smaller than the *dividend*, the *quotient* is more than 1.



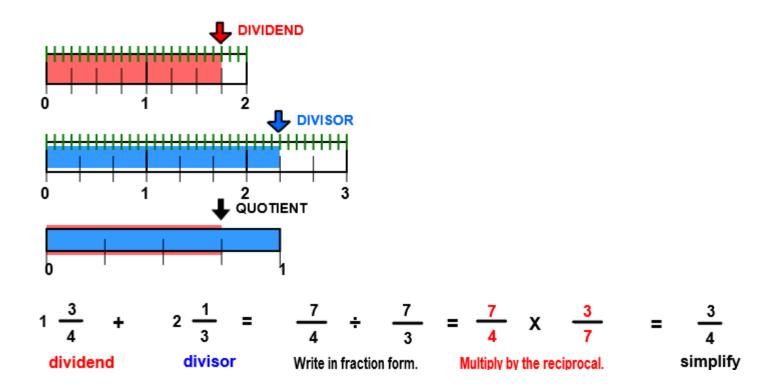
Another example where the *divisor* smaller than the *dividend*.



When the *divisor* is the same size as the *dividend*, the *quotient* is 1.



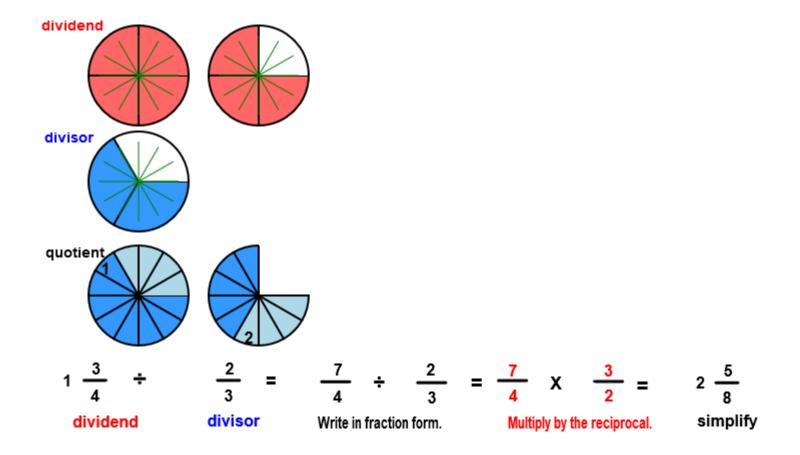
When the *divisor* is larger than the *dividend*, the *quotient* is less than 1.



Another example where the *divisor* is larger than the *dividend*.

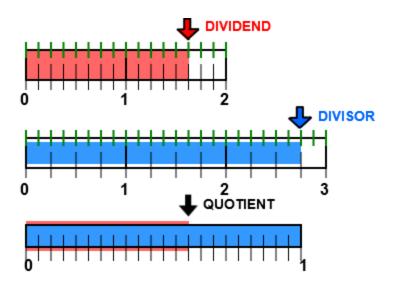
What is the *quotient* of 1 $^{3}/_{4}$ divided by $^{2}/_{3}$?

$$1^{3}/_{4} \div ^{2}/_{3} = ?$$



What is the *quotient* of 1 $\frac{5}{8}$ divided by 2 $\frac{3}{4}$?

$$1^{5}/_{8} \div 2^{3}/_{4} = ?$$



dividend

$$2 \frac{3}{4}$$

divisor

Write in fraction form.

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

Multiply by the reciprocal.

simplify