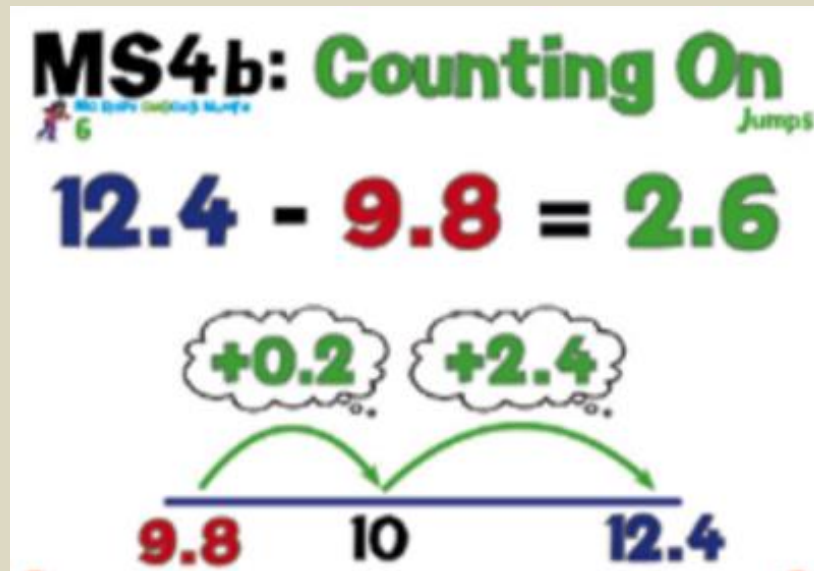




Choose which questions you want to practice below.
Remember to do them mentally, practicing the mental maths method.

Easier

$$13.4 - 11.8$$

$$14.2 - 11.4$$

Trickier

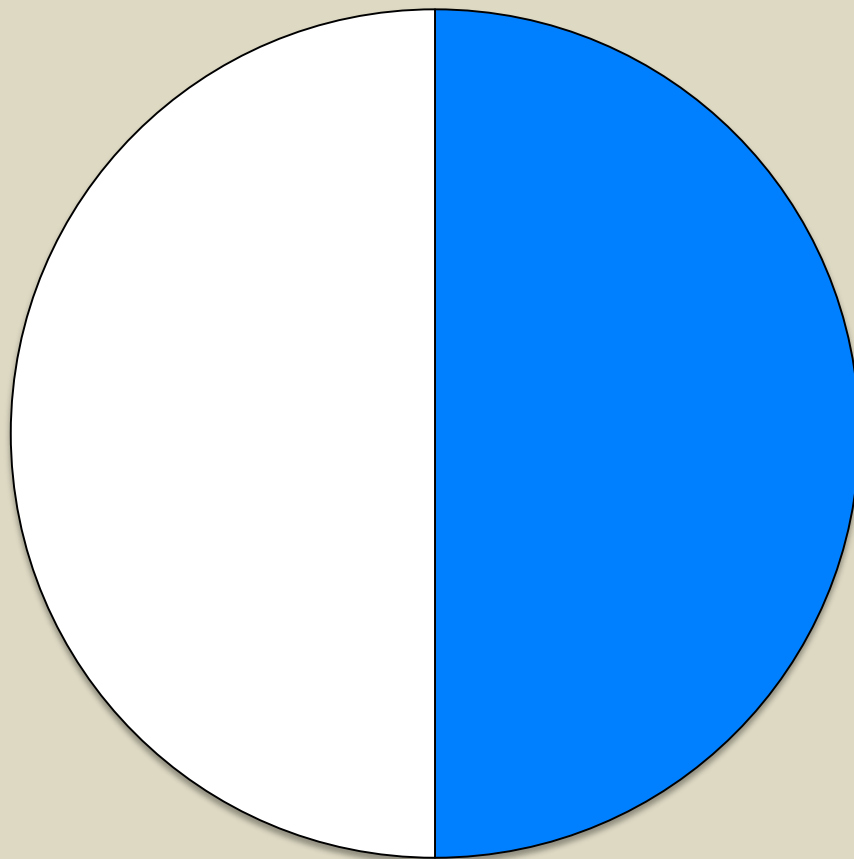
$$124.13 - 111.89$$

$$104.66 - 89.93$$

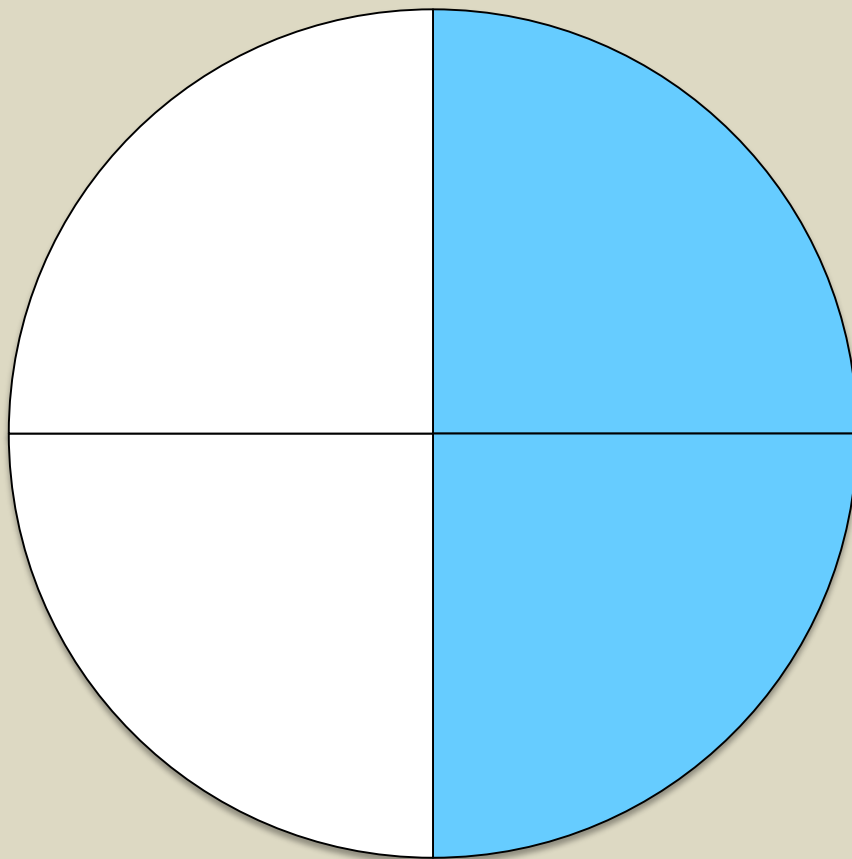
Fractions – Division

Dividing proper fractions by whole numbers

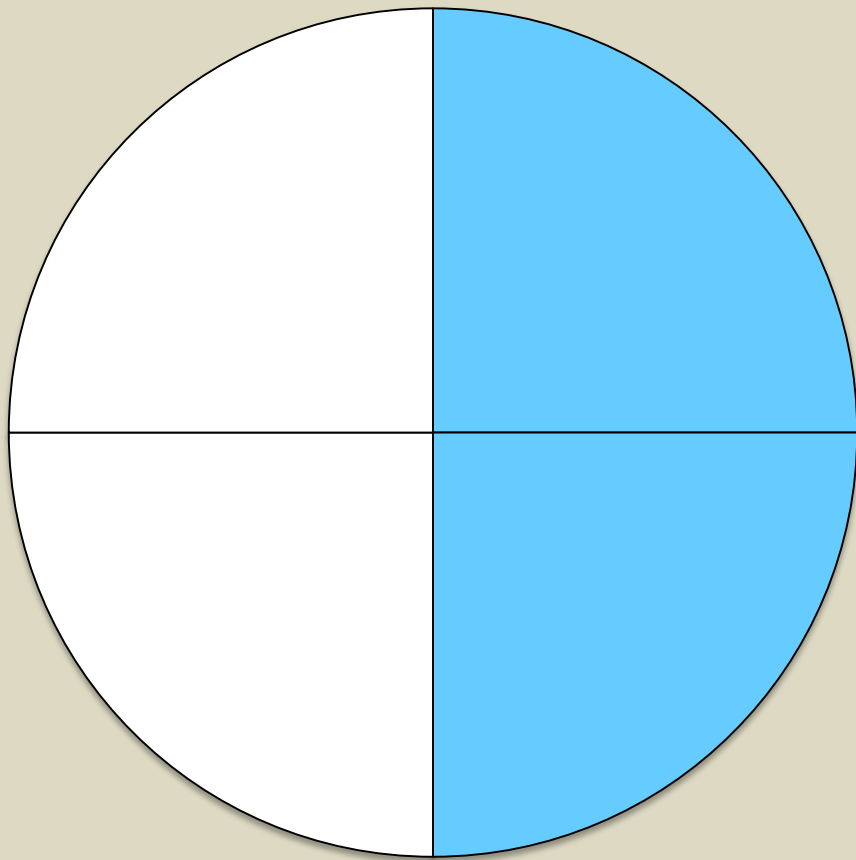
What is a half divided by 2?



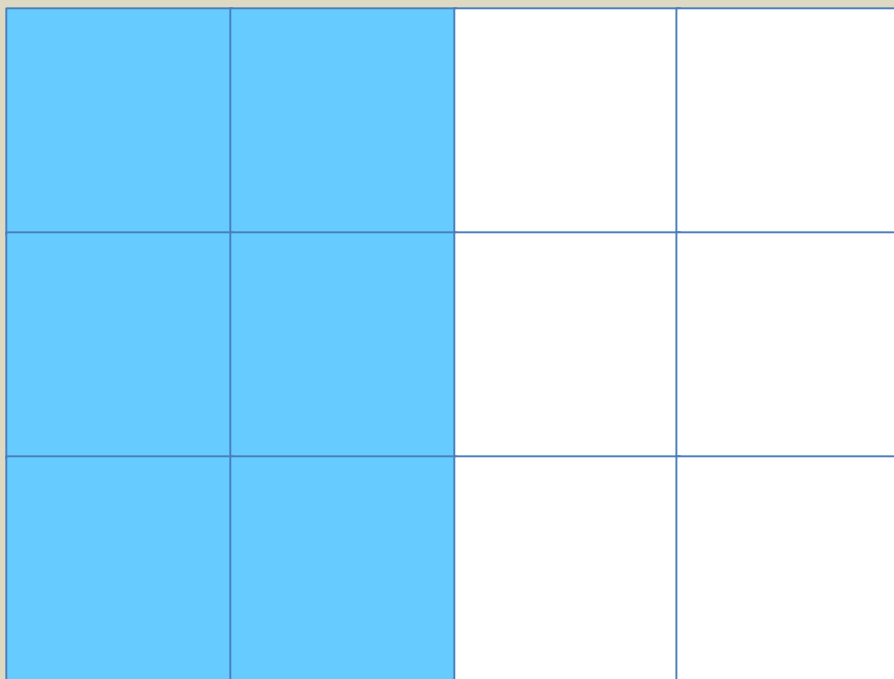
A half divided by two is a quarter:



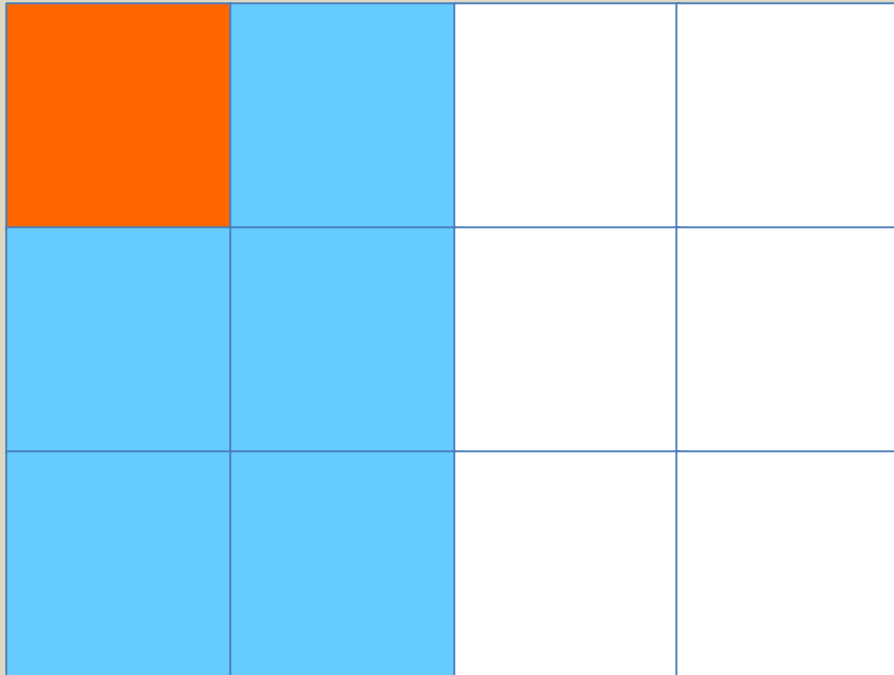
$$\frac{1}{2} \div 2 = \frac{1}{4}$$



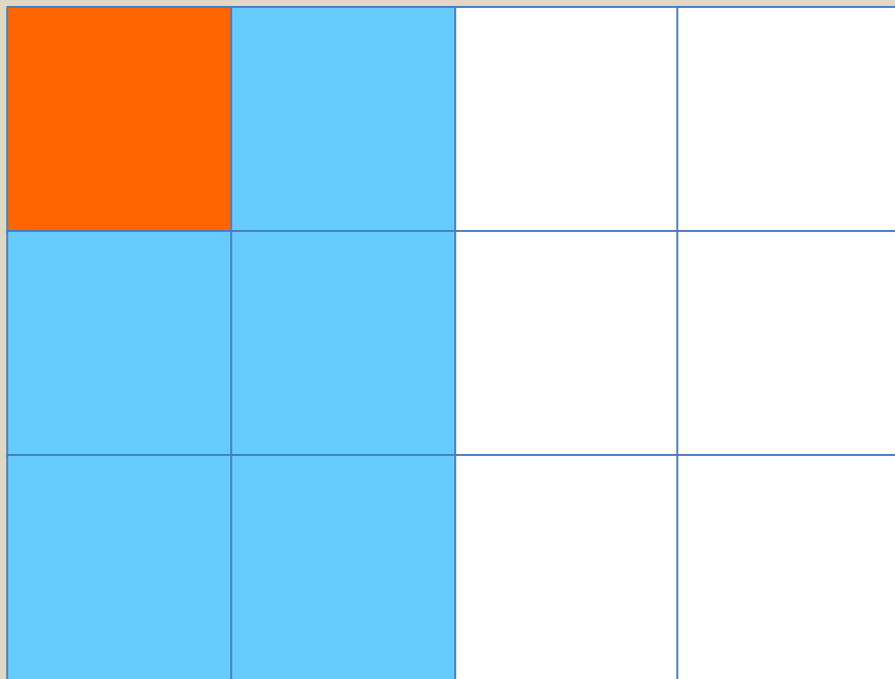
What is one half divided by six?



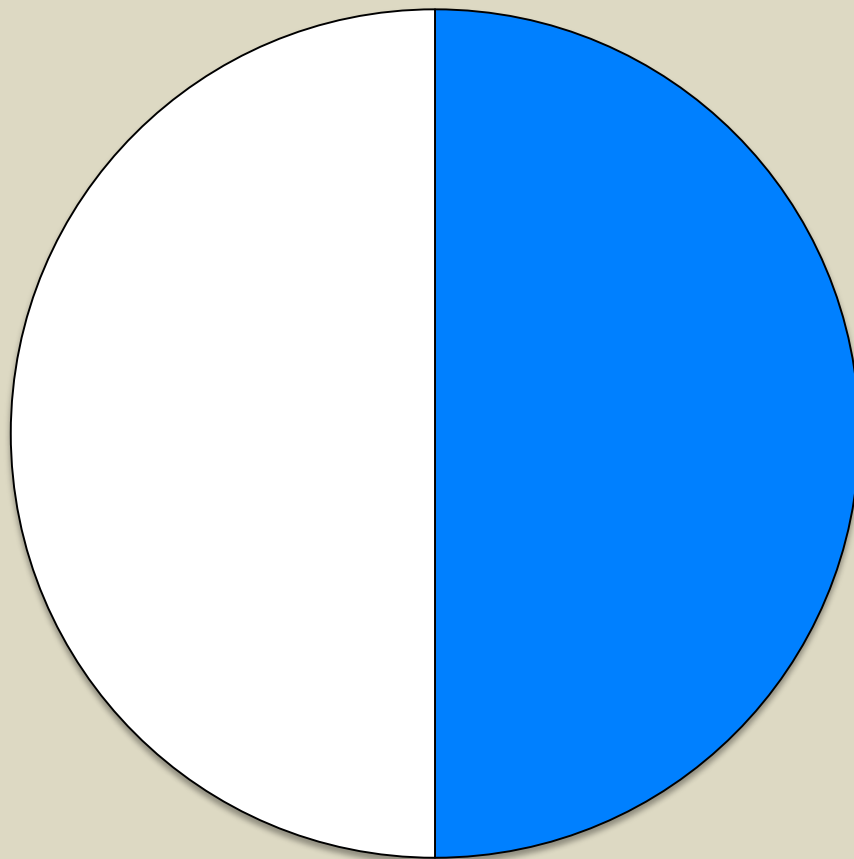
One half divided by six?



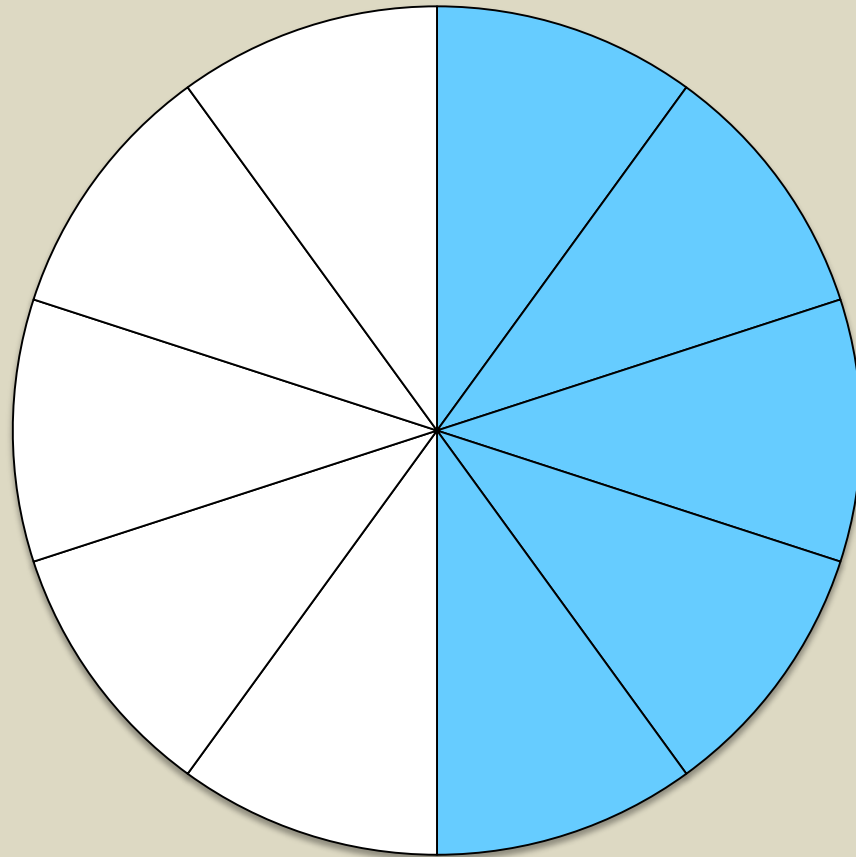
$$\frac{1}{2} \div 6 = \frac{1}{12}$$



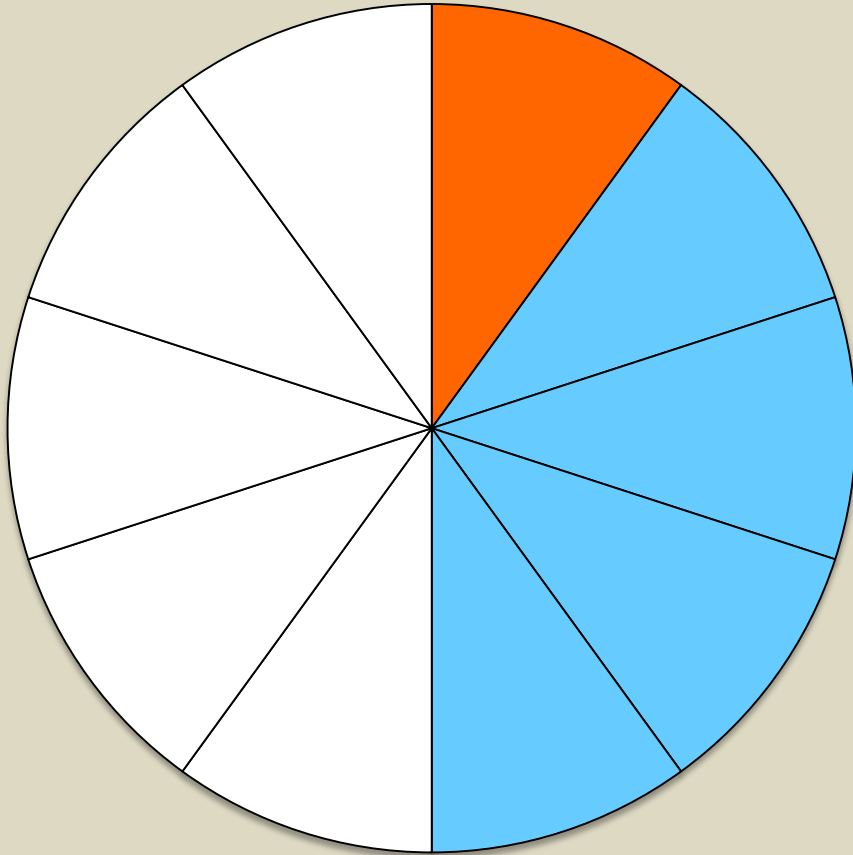
What is a one half divided by five?



Back to the pie.
Divide the half into five pieces:

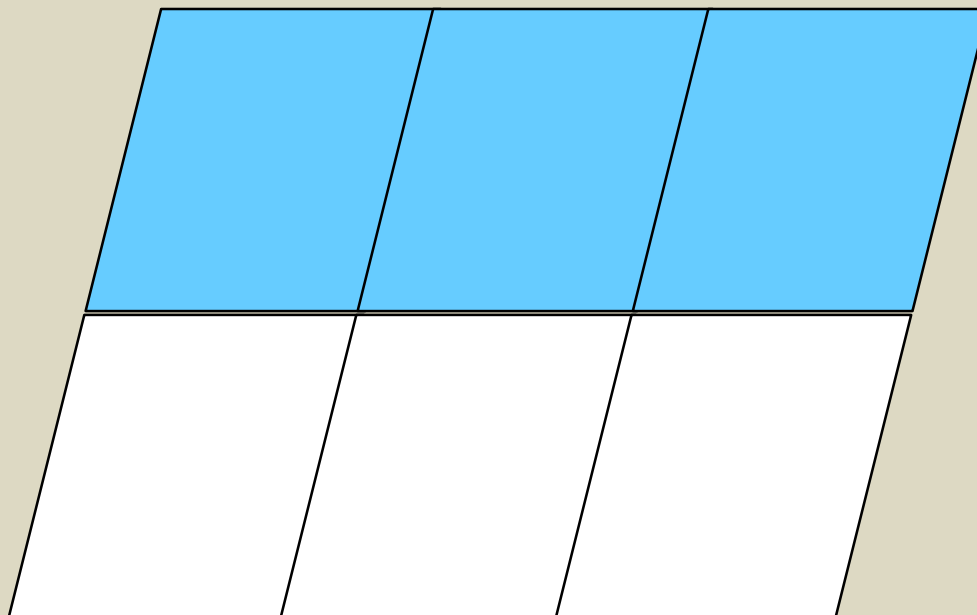


One half divided by five is one tenth:



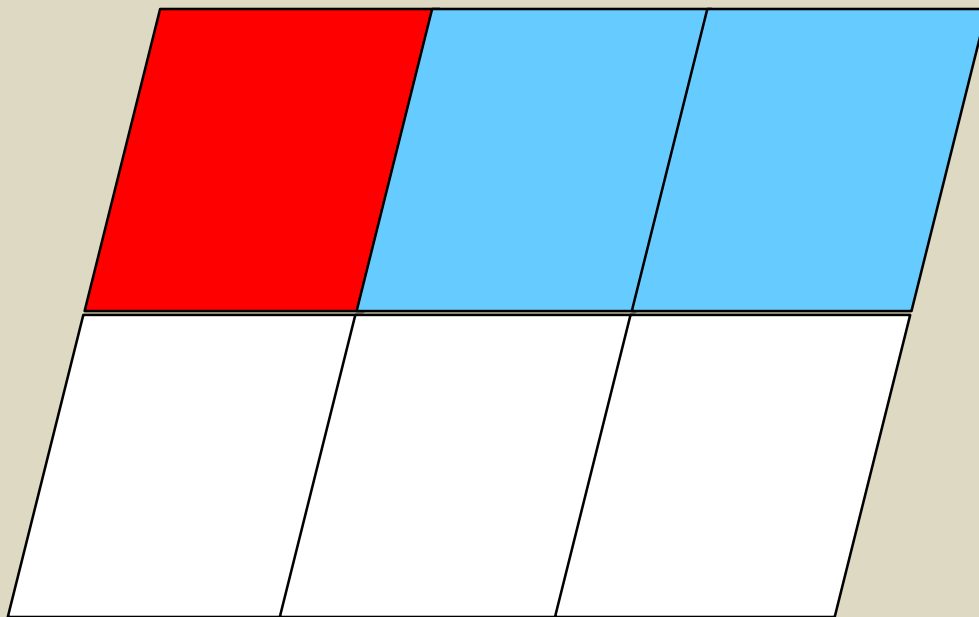
$$\frac{1}{2} \div 5 = \frac{1}{10}$$

What is one half divided by three?



Quite easy to see?

$$\frac{1}{2} \div 3 = \frac{1}{6}$$



Now lets look for the connections:

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

$$\frac{1}{3} \div 2 = \frac{1}{6}$$

$$\frac{1}{2} \div 6 = \frac{1}{12}$$

$$\frac{1}{2} \div 5 = \frac{1}{10}$$

It seems that we could turn each into a
multiplication:

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

$$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$$

$$\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$$

We see that multiplication and division are closely connected.

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

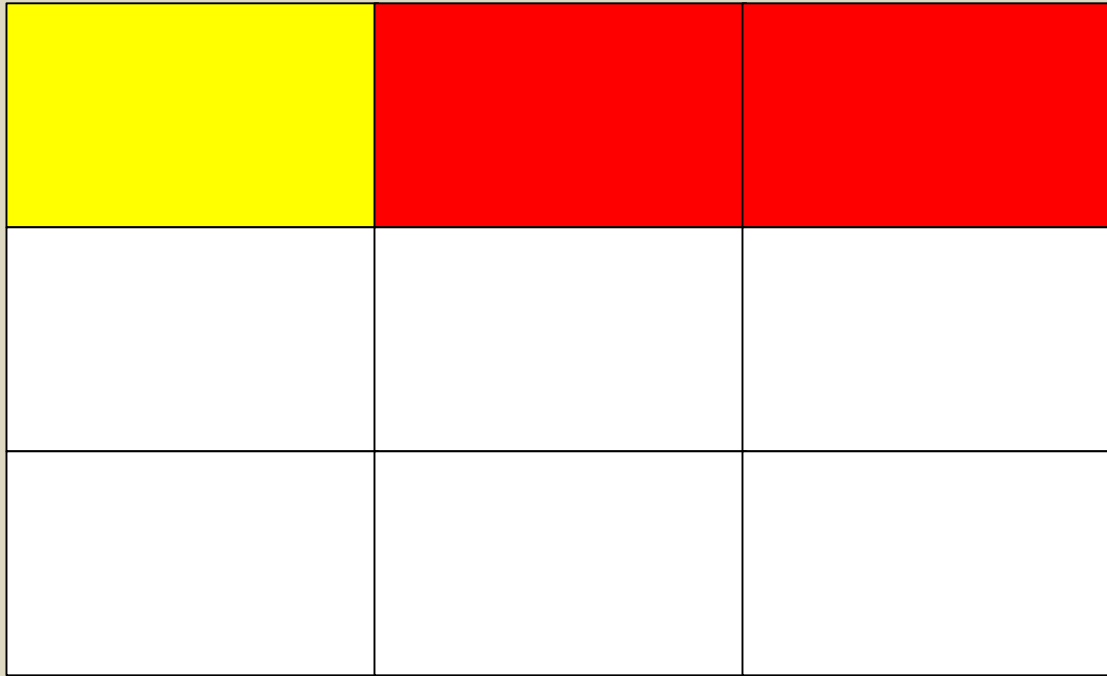
$$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$$

$$\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$$

Let's try a few more:

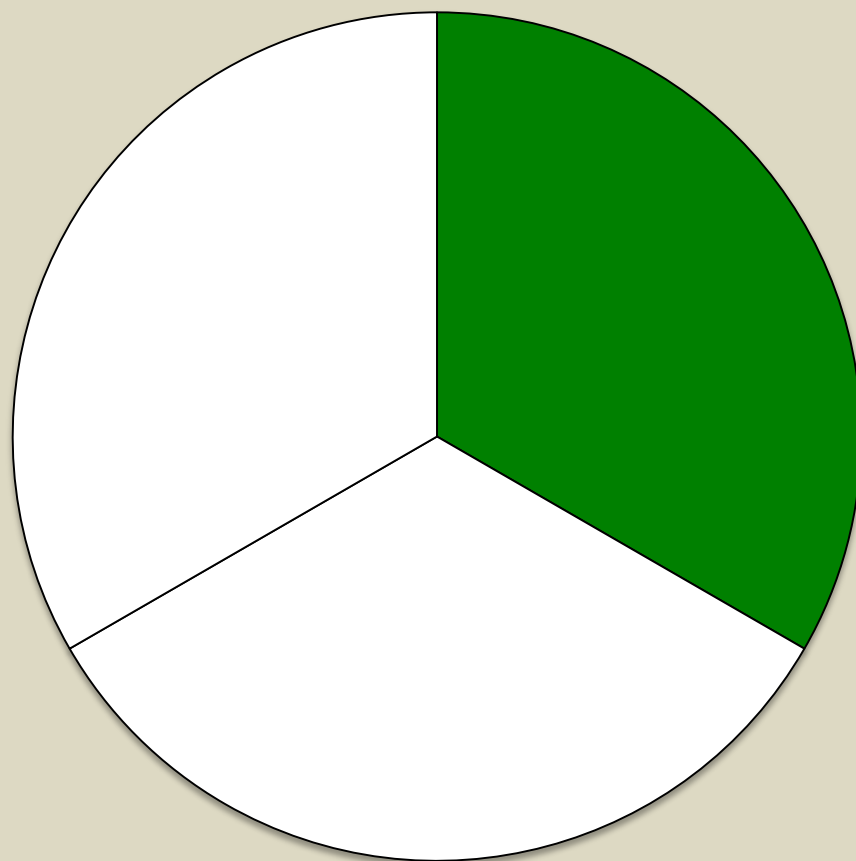
What is a third divided by three?

A third of a third:

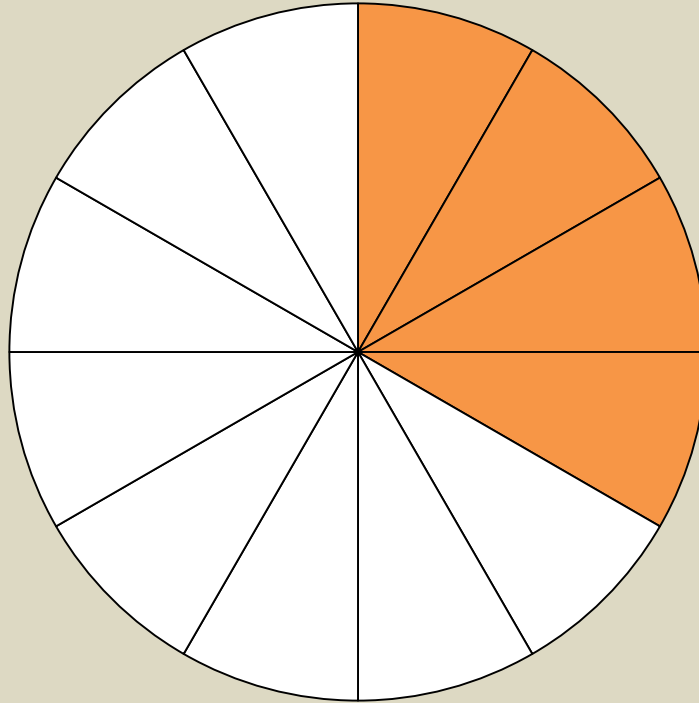


$$\frac{1}{3} \div 3 = \frac{1}{9}$$

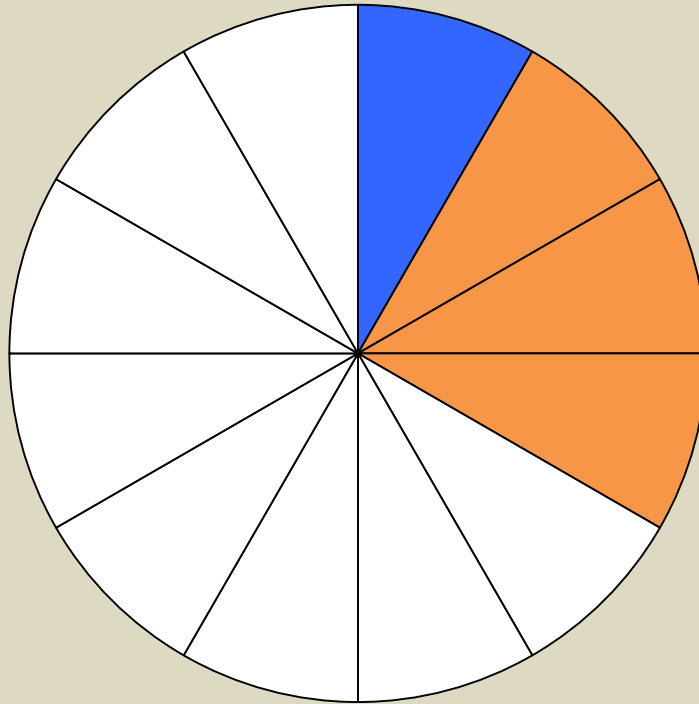
What is a third divided by four?



A third divided by four is also a
quarter of a third?



A quarter of a third is a twelfth.



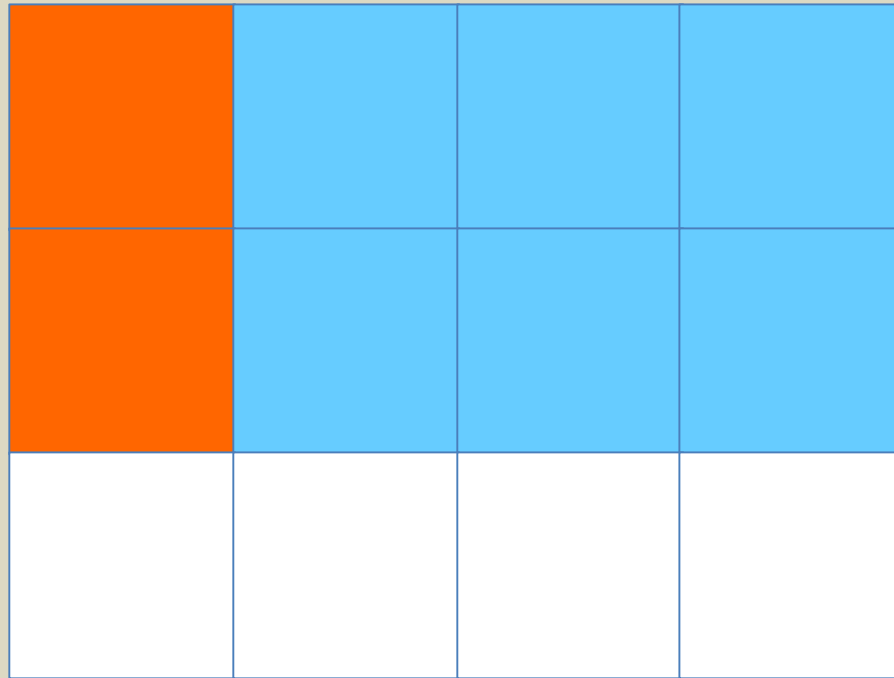
$$\frac{1}{3} \div 4 = \frac{1}{12}$$

Now lets add some new numerators:



$$\frac{2}{3} \div 4 = ?$$

Two thirds divided by four:

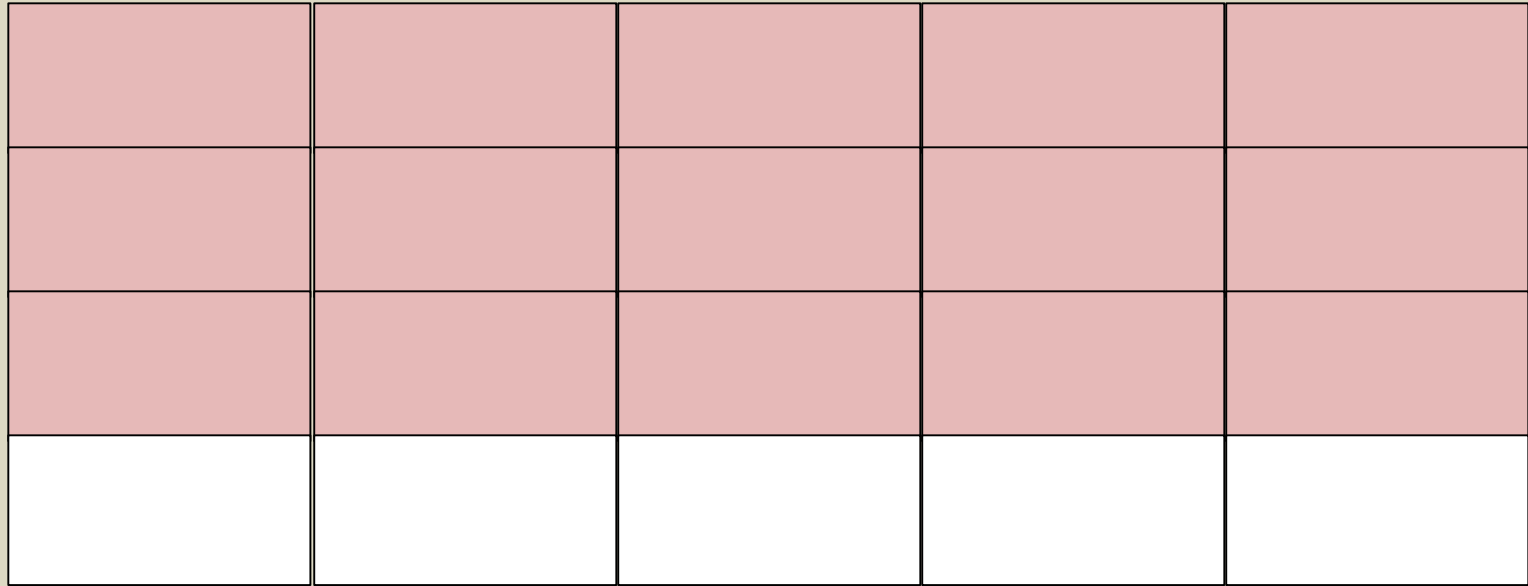


$$\frac{2}{3} \div 4 = \frac{2}{12} = \frac{1}{6}$$

Last one:

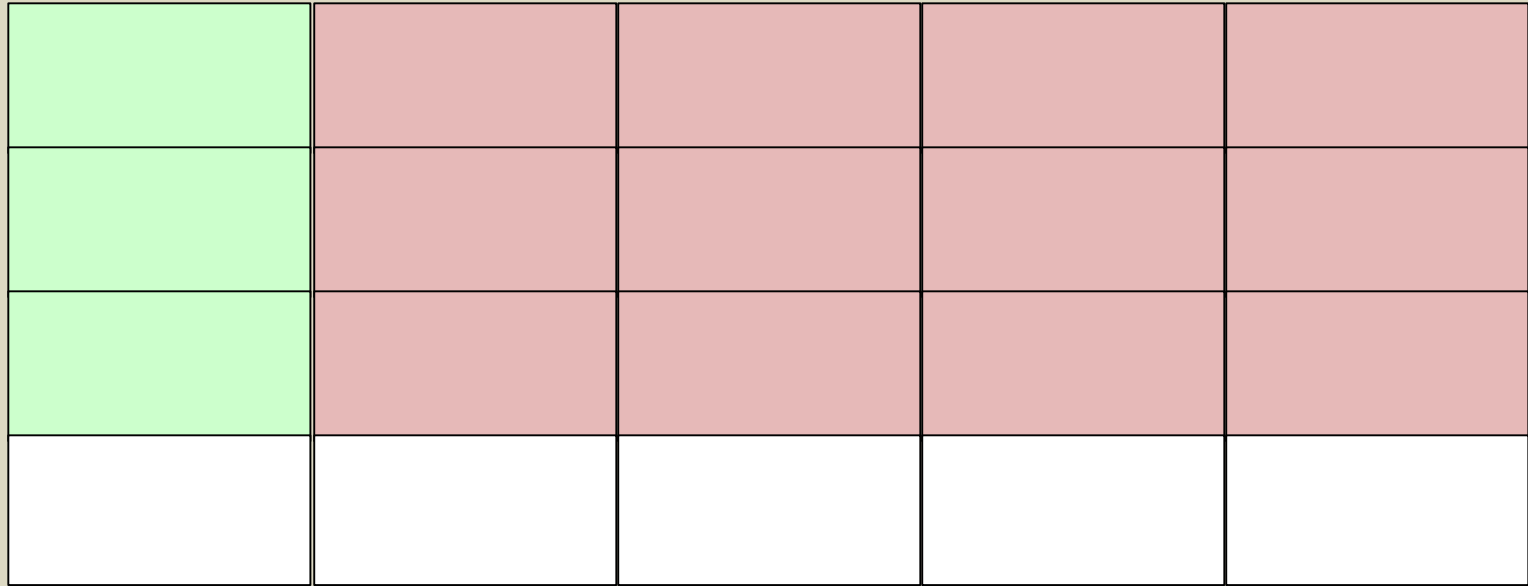
$$\frac{3}{4} \div 5 = ?$$

Three quarters divided by five:



$$\frac{3}{4} \div 5 = ?$$

Three quarters divided by five:



$$\frac{3}{4} \div 5 = \frac{3}{20}$$

And looking at our last four results:

$$\frac{1}{3} \div 3 = \frac{1}{9}$$

$$\frac{1}{3} \div 4 = \frac{1}{12}$$

$$\frac{3}{4} \div 5 = \frac{3}{20}$$

$$\frac{2}{3} \div 4 = \frac{2}{12} = \frac{1}{6}$$

Again, we could use multiplication:

$$\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$

$$\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$$

$$\frac{3}{4} \times \frac{1}{5} = \frac{3}{20}$$

$$\frac{2}{3} \times \frac{1}{4} = \frac{2}{12} = \frac{1}{6}$$