

SAMPLE PROBLEMS

SAMPLE 1

Below is an example of how a fraction bar model can be used to represent the quotient in a division problem.

$$3/4 \div 1/12$$

Draw a model to represent the quotient.



SAMPLE 2

Our model in the spotlight is the **area model**. This model helps break a problem into smaller parts, making the problem easier to understand and solve. The key feature of the area model used in this module is that it represents the quotient of two numbers as a rectangular region comprised of unit squares. Below is a problem that can be solved using an area model. The solution is also shown below.

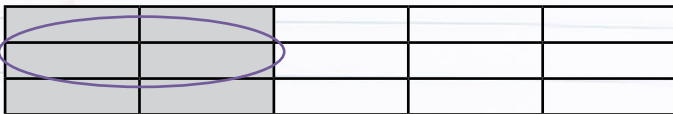
Problem: Imagine that you have $2/5$ of a cup of frosting that you need to share equally.

$$2/5 \div 3$$

We can start by drawing a model of two-fifths.



How can we show that we are dividing two-fifths into three equal parts?



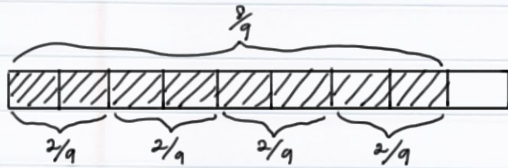
What does this part represent?

From the visual model, we can determine that $2/5 \div 3 = 2/15$

A positive attitude towards math is very important in helping your child succeed in school. In the ever-changing world we live in, a strong foundation in math, paired with excellent problem solving skills may open many doors for your child in the years to come!

SAMPLE 3

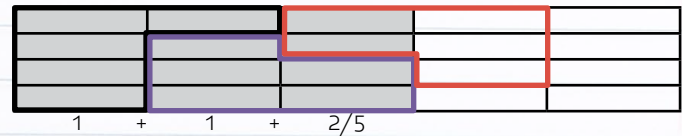
Fraction Bar: $8/9 \div 2/9$



Here we have 4 groups of $2/9$. Therefore, the answer is 4.

Area Model: $3/5 \div 1/4$

This can be rewritten as $12/20 \div 5/20 = 2 \frac{2}{5}$.



HOW YOU CAN HELP AT HOME

- Ask your child what they learned in school today and ask them to show you an example.
- Reinforce fast recall of multiplication and division facts by playing math games using flashcards. See how many facts your child can answer in 25 seconds. Then, see if they can answer more questions the next time by playing again!
- Challenge your child to create three different examples of multiplicative inverses using the example given in the Key Words section of this newsletter.