

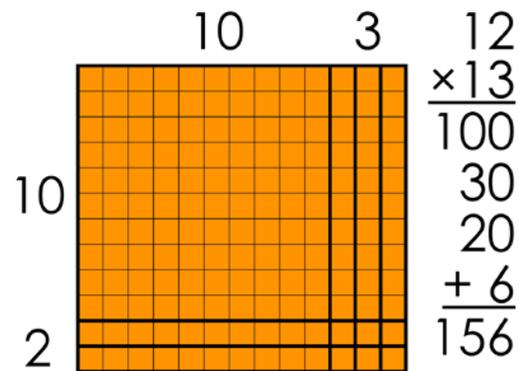


DISTRICT OF COLUMBIA
PUBLIC SCHOOLS

A Story of Units...

Multiplication and Fractions

Fourth grade math classes continue their journey in “A Story of Units” by elaborating on the students’ understanding of multiplication. Students will increase overall fluency while incorporating the concept of area. In figures such as those on the right, students will count unit squares to measure area.



In Module 3 we will:

- **Interpret** a multiplication problem as a comparison of values
- **Multiply and divide** to solve comparative word problems
- **Solve** multi-step word problems
- **Work** on identifying factors and multiples
- **Multiply** multi-digit numbers
- **Apply** place-value and properties of operations to tackling operations of larger numbers
- **Use** the area and perimeter equations of rectangles

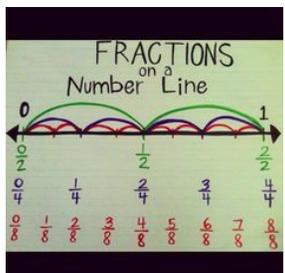
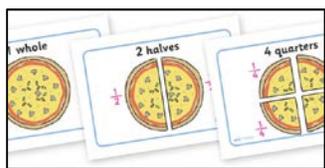
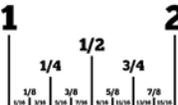
In Module 5 we will:

- **Given a rule**, create a number or pattern
- **Explain** how fractions can be equivalent
- **Compare** fractions with different numerators and different denominators
- **Understand** a fraction a/b as a sum of fractions $1/b$.

$$\frac{7}{12} \times 6$$

- **Multiply** fractions by whole numbers
- **Create** a line plot to illustrate fractions and then add and subtract fractions using the line plot

Enrichment Activities

In school, your child will...	At home, your child can...
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Play games where they find equivalent fractions.</p> </div> </div> <p>Add fractions using a number line to solve application problems.</p> 	<p>Compare fractions of objects such as pizzas or graham crackers. Potential questions include: “If I had $\frac{3}{8}$ of the pizza and you had $\frac{1}{2}$, who ate more?”</p>  <p>Create a fraction number line to solve 1 problems with fractions and 2 look for fractions on rulers.</p> 

Focus Standards for Mathematical Practice

- Reason abstractly and quantitatively; students represent quantities with numerals
- Use reasoning to construct arguments and think about the reasoning of others
- Model decompositions by drawing and writing (such as 3 can be broken into 1 and 2)
- Use tools strategically and appropriately
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Fluency Focus

4th grade math classes will spend their fluency time this quarter on operational fluency in different areas, such as multiplying multiples of 10 together or adding fractions.

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100