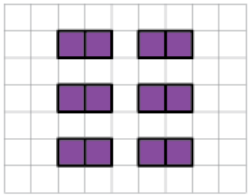
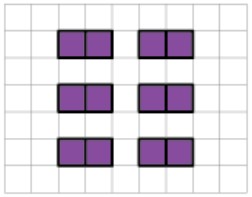
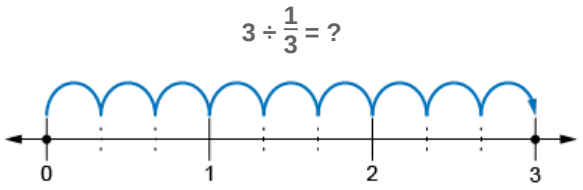
Number

Activity 30 Assessment

Multiplication and Division with Unit Fractions

Multiplication and Division with Unit Fractions		
Recognizes multiplication and division situations.  "I see multiplication: 12 parts of one half. I also see division: 6 wholes divided into one-half parts."	Writes an equation to represent a multiplication or division situation.  "I can represent this situation using a multiplication and a division equation." $12 \times \frac{1}{2} = 6$; $6 \div \frac{1}{2} = 12$	Models situations involving a whole partitioned into unit fractions in many ways.  "I used a number line from 0 to 3, partitioned each whole into thirds, then counted the thirds: 1 one-third, 2 one-thirds, 3 one-thirds, …, 8 one-thirds, 9 one-thirds. $3 \div \frac{1}{3} = 9$."
Observations/Documentation		

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Number

Activity 30 Assessment

Multiplication and Division with Unit Fractions

Multiplication and Division with Unit Fractions (cont'd)		
Solves equations using addition or subtraction. $6 \times \frac{1}{5} = ?$ "I added $\frac{1}{5}$ 6 times: $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{6}{5}$"	Solves using the properties of multiplication or division, extends to a variety of contexts. Valentina and her abuela are making empanadas. They used $\frac{1}{3}$ of the recipe and the recipe called for 6 cups of flour. How much flour did they need? "I found $\frac{1}{3}$ of 6 cups: $6 \times \frac{1}{3} = \frac{6}{3}$, or 2. They needed 2 cups of flour."	Solves multiplication and division problems flexibly, using a variety of strategies. Ha-jun hikes $\frac{1}{2}$ km every day. How long will it be before Ha-jun has hiked 18 km? 18 ÷ 1/2 = ? "If Ha-jun hikes $\frac{1}{2}$ km in one day, he will hike 1 km in 2 days. So, he will hike 18 km in 18 × 2 = 36 days."
Observations/Documentation		

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