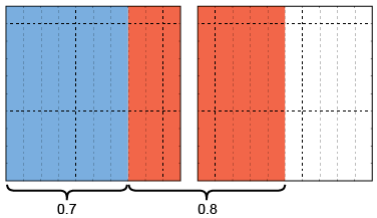
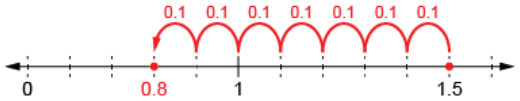
Number

Activity 40 Assessment

Operations with Fractions and Decimals Consolidation

Conceptual Meaning of Addition and Subtraction of Decimals

Recognizes addition and subtraction situations and models concretely to add or subtract to tenths 0.7 + 0.8 = 1.5  "7 tenths + 8 more tenths = 1 whole and 5 tenths"	Models and symbolizes ways to solve problems by using a number line 1.5 – 0.7 = ?  	Uses an understanding of place value to add or subtract decimals with tenths (decomposes both numbers) 14.6 + 27.8 = ? 14 + 27 = 41 (whole numbers) 0.6 + 0.8 = 1.4 (decimals) 41 + 1.4 = 42.4 "I decomposed both numbers, added the whole numbers, then the tenths."

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Number

Activity 40 Assessment

Operations with Fractions and Decimals Consolidation

Conceptual Meaning of Addition and Subtraction of Decimals (con't)		
Uses an understanding of place value to decompose one number 14.6 + 27.8 = ? 27.8 = 27 + 0.8 14.6 + 27 = 41.6 41.6 + 0.8 = 42.4 "I used place value to add on the second number."	Uses estimation and mental math strategies to check reasonableness of solutions 25.86 – 17.23 = 8.63 26 – 17 = 9 "8.63 is the answer I calculated, and it is close to 9, so my answer is reasonable."	Solves addition and subtraction problems flexibly, using a variety of strategies 25.85 – 17.21 = ? 25.85 + 0.15 = 26 17.21 + 0.15 = 17.36 26 – 17.36 = 8.64 1 1 25.85 – 17.21 8.64
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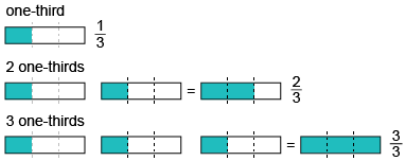
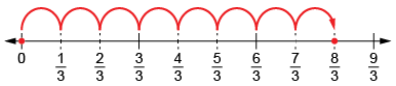
Number

Activity 40 Assessment

Operations with Fractions and Decimals Consolidation

Relationship Between Repeated Addition of Unit Fractions and Multiplication

Counts unit fractions	Concretely solves problems involving the repeated addition of unit fractions	Models symbolically and describes repeated addition of unit fractions	Uses multiplication of unit fractions to flexibly solve related problems
 "1 one-third, 2 one-thirds, 3 one-thirds"	Miranda feeds her puppy, Atlas, $\frac{1}{3}$ cup of food, 4 times per day. How much food does the puppy get in two days? "1 one-third, 2 one-thirds, 3 one-thirds, 4 one-thirds, 5 one-thirds, 6 one-thirds, 7 one-thirds, 8 one-thirds" $\frac{8}{3}$ cups = $2\frac{2}{3}$ cups	 $\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}=\frac{8}{3}$ $\frac{8}{3}=\frac{6}{3}+\frac{2}{3}=2\frac{2}{3}$ "Atlas gets $2\frac{2}{3}$ cups of food per day."	Atlas is fed 4 times per day for 2 days: $4 \times 2 = 8$ $8 \times \frac{1}{3}=\frac{8}{3}$, or $2\frac{2}{3}$ "Atlas gets $2\frac{2}{3}$ cups of food."

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