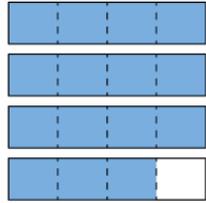


# Activity 15 Assessment

## Consolidating Fractions, Decimals, and Ratios

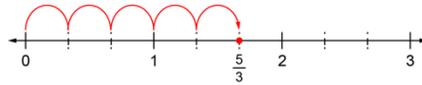
### Exploring Fractions and Decimals

Uses counting to determine improper fractions and mixed numbers



"I counted 15 one-fourths. Each four-fourths is one whole, so  $\frac{15}{4} = 3\frac{3}{4}$ ."

Models fractions using quantities, lengths, and areas



"I took jumps on a number line to show  $\frac{5}{3}$ ."

Expresses improper fractions as mixed numbers and vice versa

$$\frac{5}{3} = 1\frac{2}{3}$$

$$"5 = 3 + 2"$$

So,  $\frac{5}{3} = \frac{3}{3} + \frac{2}{3}$ , which is the same as

$$1 + \frac{2}{3} = 1\frac{2}{3}."$$

Compares and orders fractions, including improper fractions and mixed numbers (e.g., using benchmarks)

$$\frac{11}{7}, \frac{16}{9}, \frac{13}{12}$$

$$\frac{11}{7} = 1\frac{4}{7}, \frac{16}{9} = 1\frac{7}{9}, \frac{13}{12} = 1\frac{1}{12}$$

"All the fractions are between 1 and 2. I compared to benchmarks:

$\frac{4}{7}$  is a little more than 1 and

one-half.  $\frac{7}{9}$  is pretty close to 2.

$1\frac{1}{12}$  is very close to 1.

So, from least to greatest:

$$\frac{13}{12}, 1\frac{4}{7}, 1\frac{7}{9}."$$

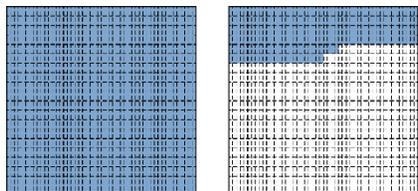
### Observations/Documentation

# Activity 15 Assessment

## Consolidating Fractions, Decimals, and Ratios

### Exploring Fractions and Decimals (cont'd)

Represents decimal numbers to thousandths



"I shaded the grids to show 1.254."

Identifies a decimal between two given decimals

2.834, ?, 2.84

"Both decimals have 2 wholes. I know 2.834 has 834 thousandths and 2.84 has 840 thousandths. 836 is between 834 and 840. So, 2.836 is between 2.834 and 2.84."

Rounds decimals to a specified place value (e.g., nearest hundredth)



"2.517 is closer to 2.52 than to 2.51, so I round up to 2.52."

Flexibly compares and orders decimals

2.7, 2.649, 2.76

"I ordered the decimals from least to greatest: 2.649, 2.7, 2.76."

### Observations/Documentation

# Activity 15 Assessment

## Consolidating Fractions, Decimals, and Ratios

### Exploring Ratios

Understands difference between part-part and part-whole relationships



"Butterflies to ladybugs is a part-part relationship and butterflies to all insects is a part-whole relationship."

Expresses part-part and part-whole relationships with ratios



"Butterflies to ladybugs: 3:1, a part-part ratio."

Butterflies to all insects: 3:4, a part-whole ratio."

Expresses part-whole relationships in different ways (i.e., ratios, fractions, decimals, percents)



"Butterflies to all insects: 3:4,  $\frac{3}{4}$ , 0.75, 75%"

Flexibly interprets and expresses ratios to represent different situations

4:5

"A 4:5 ratio could represent a part-part situation, such as:"



Or it could represent a part-whole situation, such as:"



### Observations/Documentation