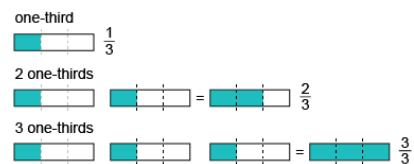


Activity 39 Assessment

Repeated Addition with Unit Fractions

Relationship Between Repeated Addition of Unit Fractions and Multiplication

Counts unit fractions



“1 one-third, 2 one-thirds, 3 one-thirds”

Concretely solves problems involving the repeated addition of unit fractions

Miranda feeds her puppy, Atlas, $\frac{1}{3}$ cup of food, 4 times per day.

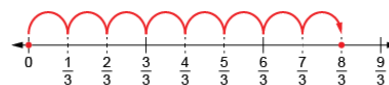
How much food does the puppy get in two days?



“1 one-third, 2 one-thirds, 3 one-thirds, 4 one-thirds, 5 one-thirds, 6 one-thirds, 7 one-thirds, 8 one-thirds”

$$\frac{8}{3} \text{ cups} = 2\frac{2}{3} \text{ cups}$$

Models symbolically and describes repeated addition of unit fractions



$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{8}{3}$$

$$\frac{8}{3} = \frac{6}{3} + \frac{2}{3} = 2\frac{2}{3}$$

“Atlas gets $2\frac{2}{3}$ cups of food per day.”

Uses multiplication of unit fractions to flexibly solve related problems

Atlas is fed 4 times per day for 2 days: $4 \times 2 = 8$

$$8 \times \frac{1}{3} = \frac{8}{3}, \text{ or } 2\frac{2}{3}$$

“Atlas gets $2\frac{2}{3}$ cups of food.”

Observations/Documentation