# **Activity 12 Assessment**

### Fractions, Decimals, Percents, Ratios, and Rates Consolidation

### Relating Fractions, Decimals, Percents, Ratios, and Rates Determines the percent of a number. Describes an equal-sharing situation Describes a fraction as a division Makes connections between using a fraction. statement and vice versa. fractions, decimals, and percents. "I can determine 12% of 40 by multiplying 40 by 12 and dividing by 100." $40 \times 12 \div 100 = 480 \div 100$ = 4.8"To share 4 granola bars among "To share 4 granola bars among 3 friends, I draw a picture that shows 3 friends. I can write the division 4 wholes each divided into thirds." statement 4 ÷ 3 or I can write a fraction $\frac{4}{3}$ . The picture shows 4 wholes each divided into thirds. Each person gets 3 thirds "I see forty-eight hundredths, which and one more third or $1\frac{1}{2}$ ." is the same as 0.48 or $\frac{48}{100}$ . Since percent is 'out of 100', it can also be thought of as 48% of something." Observations/Documentation

# **Activity 12 Assessment**

#### Fractions, Decimals, Percents, Ratios, and Rates Consolidation

#### Relating Fractions, Decimals, Percents, Ratios, and Rates (cont'd)

Relates percent of a number to ratios and proportions.

"In the expression 12% of 50, 12% represents  $\frac{12}{100}$ .

I can use equivalent ratios to determine what 12% is of 50.

$$\frac{12}{100} = \frac{6}{50}$$

I divide the denominator by 2 to get 50. So, I divide the numerator by 2 to get 6."

Represents and records ratios and rates symbolically (using ratio table).

10 glue sticks cost \$4. How much will 60 glue sticks cost?

For example, using rates:

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Glue Sticks	10	20	30	40	50	60
Cost (\$)	4	8	12	16	20	24

"I skip-counted by 10s and 4s."

Represents and creates equivalent ratios and rates.

10 glue sticks cost \$4. How much will 60 glue sticks cost?

For example, using ratios:

"The ratio of glue sticks to cost is 10:4. To find the cost of 60 glue sticks, I multiply each term by 6."

$$10 \times 6:4 \times 6$$
$$60:24$$

Flexibly solves problems involving fractions, decimals, percents, ratios, and rates.

The ratio of dogs to cats in the animal shelter is 8:12. Show the comparison using percents.

"The whole is 8 + 12 = 20.
Since percent is "out of 100",
I multiply each term in the ratio by 5
because 5 × 20 = 100.
8 × 5:12 × 5, or 40:60
40% of the animals are dogs
and 60% are cats."

### **Observations/Documentation**