Activity 9 Assessment
Relating Fractions, Decimals, and Percents

Relating Fractions, Decimals, Percents, Ratios, and Rates

Describes an equal-sharing situation using a fraction.	Describes a fraction as a division statement and vice versa.	Makes connections between fractions, decimals, and percents.	Determines the percent of a number.
"To share 4 granola bars among 3 friends, I draw a picture that shows 4 wholes each divided into thirds."	"To share 4 granola bars among 3 friends, I can write the division 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 and one more third or $1\frac{1}{3}$."	"I see forty-eight hundredths, which 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."	"I can determine 12% of 40 by multiplying 40 by 12 and dividing by 100." $$40 \times 12 \div 100 = 480 \div 100 = 4.8$$
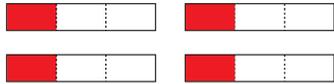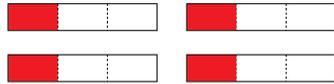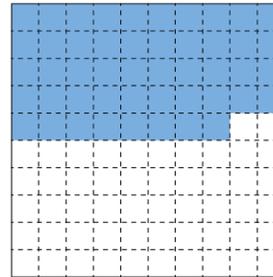
Observations/Documentation

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

Relates percent of a number to ratios and proportions.	Represents and records ratios and rates symbolically (using ratio table).	Represents and creates equivalent ratios and rates.	Flexibly solves problems involving fractions, decimals, percents, ratios, and rates.
"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."	10 glue sticks cost \$4. How much will 60 glue sticks cost? For example, using rates: 	Glue Sticks	10	20	30	40	50	60
Cost (\$)	4	8	12	16	20	24	 "I skip-counted by 10s and 4s."	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." $$10 \times 6 : 4 \times 6$$ $$60:24$$	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

Mathology 6 Alberta
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