Activity 10 Assessment
Unit Rates

Representing Equivalent Ratios and Rates

Represents and records ratios and rates symbolically.	Represents and creates equivalent ratios and rates.	Represents and creates in-between ratios and rates.	Flexibly solves problems involving ratios, including percents, and rates.
10 glue sticks cost $4. How much will 60 glue sticks cost?	10 glue sticks cost $4. How much will 60 glue sticks cost?	A crafter sells 2 hand-painted pots for $18. How much will the crafter make if 7 pots are sold?	The ratio of dogs to cats in the animal shelter is 8:12. Show the comparison using percents.

Column 1: 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."

Column 2: "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 × 6 : 4 × 6

60 : 24

Column 3: For example, using rates:

Pots Sold	2	4	6	8	10
Amount Made ($)	18	36	54	72	90

"7 is halfway between 6 and 8, so I find the number halfway between 54 and 72, which is $63.00."

Column 4: "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
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