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| **Relating Fractions, Decimals, Percents, Ratios, and Rates** |
| Describes an equal-sharing situation using a fraction.A red and black rectangles  Description automatically generated“To share 4 granola bars among 3 friends, I draw a picture that shows 4 wholes each divided into thirds.” | Describes a fraction as a division statement and vice versa.A red and black rectangles  Description automatically generated“To share 4 granola bars among 3 friends, I can write the division statement 4 ÷ 3 or I can write afraction . The picture shows 4 wholes each divided into thirds. Each person gets 3 thirds and one more third or 1.” | Makes connections between fractions, decimals, and percents. A blue and white grid  Description automatically generated“I see forty-eight hundredths, which is the same as 0.48 or . Since percent is ‘out of 100’, it can also be thought of as 48% of something.” | Determines the percent of a number.“I can determine 12% of 40by multiplying 40 by 12 and dividing by 100.”40 × 12 ÷ 100 = 480 ÷ 100 = 4.8  |
| **Observations/Documentation** |
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| **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 . I can use equivalent ratios to determine what 12% is of 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:A white rectangular box with black numbers  Description automatically generated“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 × 6:4 × 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 40:6040% of the animals are dogs and 60% are cats.” |
| **Observations/Documentation** |
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