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| **Representing Multiplicative Relationships as Rates** |
| Solves unit rate problems concretely and pictoriallyIt takes 6 apples to make an apple pie. How many apples are needed to make 9 pies?“I used a number line to show how the number of apples increases as the number of pies increases.” | Uses various tools to solve multiple unit rate problems.Kiran and Simi walk 30 km. Kiran walks 5 km per hour and Simi walks 6 km in one hour. How long will it take each person to walk 30 km?“I used a ratio table. It makes it easy to make comparisons and to solve the problem.” | Uses inverse relationships to record and solve unit rate problems Marc paddled a canoe 10 km in 150 minutes. At what rate did he paddle?“10 km × **rate per minute** = 150 minutesI thought division: 150 ÷ 10 = ? I know 10 × **15** = 150. So, Marc paddled at the **rate of 15 km per minute.”** | Flexibly applies multiplicative reasoning to solve different types of unit rate problems. Shila cuts lawns in the neighborhood and charges $7/hour. If Shila works for 6 hours each week, how many hours will Shila need to work to make $168?“I know that Shila makes $42 a week (7 × 6 = 42). From the ratio table, Shila will make $168 dollars after 24 hours of work.” |
| **Observations/Documentation** |
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