## Activity 28 Assessment

## Whole Number Rates

| Representing Multiplicative Relationships as Rates |  |  |  |
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| Solves unit rate problems concretely and pictorially <br> It takes 6 apples to make an apple pie. How many apples are needed to make 9 pies? <br> "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. <br> 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 ? <br> "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 <br> Marc paddled a canoe 10 km in 150 minutes. At what rate did he paddle? <br> " $10 \mathrm{~km} \times$ rate per minute $=150$ <br> minutes <br> I thought division: $150 \div 10=$ ? <br> \| know $10 \times 15=150$. <br> So, Marc paddled at the rate of 15 km per minute." | Flexibly applies multiplicative reasoning to solve different types of unit rate problems. <br> 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 $\$ 168$ ? <br> "I know that Shila makes $\$ 42$ a week ( $7 \times 6=42$ ). From the ratio table, Shila will make $\$ 168$ dollars after 24 hours of work.' |
| Observations/Documentation |  |  |  |
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