## Unit 3 Lesson 6: Interpreting Rates

### 1 Something per Something (Warm up)

#### Student Task Statement

1. Think of two things you have heard described in terms of “something per something.”
2. Share your ideas with your group, and listen to everyone else’s idea. Make a group list of all unique ideas. Be prepared to share these with the class.

### 2 Cooking Oatmeal

#### Student Task Statement

Priya, Han, Lin, and Diego are all on a camping trip with their families. The first morning, Priya and Han make oatmeal for the group. The instructions for a large batch say, “Bring 15 cups of water to a boil, and then add 6 cups of oats.”

* Priya says, “The ratio of the cups of oats to the cups of water is . That’s 0.4 cups of oats per cup of water.”
* Han says, “The ratio of the cups of water to the cups of oats is . That’s 2.5 cups of water per cup of oats.”

1. Who is correct? Explain your reasoning. If you get stuck, consider using the table.

| * water (cups) | * oats (cups) |
| --- | --- |
| * 15 | * 6 |
| * 1 |  |
|  | * 1 |

1. The next weekend after the camping trip, Lin and Diego each decide to cook a large batch of oatmeal to have breakfasts ready for the whole week.
   1. Lin decides to cook 5 cups of oats. How many cups of water should she boil?
   2. Diego boils 10 cups of water. How many cups of oats should he add into the water?
2. Did you use Priya’s rate (0.4 cups of oats per cup of water) or Han’s rate (2.5 cups of water per cup of oats) to help you answer each of the previous two questions? Why?

### 3 Cheesecake, Milk, and Raffle Tickets

#### Student Task Statement

For each situation, find the **unit rates**.

1. A cheesecake recipe says, “Mix 12 oz of cream cheese with 15 oz of sugar.”
   * How many ounces of cream cheese are there for every ounce of sugar?
   * How many ounces of sugar is that for every ounce of cream cheese?
2. Mai’s family drinks a total of 10 gallons of milk every 6 weeks.
   * How many gallons of milk does the family drink per week?
   * How many weeks does it take the family to consume 1 gallon of milk?
3. Tyler paid $16 for 4 raffle tickets.
   * What is the price per ticket?
   * How many tickets is that per dollar?
4. For each problem, decide which unit rate from the previous situations you prefer to use. Next, solve the problem, and show your thinking.
   1. If Lin wants to make extra cheesecake filling, how much cream cheese will she need to mix with 35 ounces of sugar?
   2. How many weeks will it take Mai’s family to finish 3 gallons of milk?
   3. How much would all 1,000 raffle tickets cost?



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