## Unit 2 Lesson 16: Solving More Ratio Problems

### 1 You Tell the Story (Warm up)

#### Student Task Statement

Describe a situation with two quantities that this tape diagram could represent.



### 2 A Trip to the Aquarium

#### Student Task Statement

Consider the problem: A teacher is planning a class trip to the aquarium. The aquarium requires 2 chaperones for every 15 students. The teacher plans accordingly and orders a total of 85 tickets. How many tickets are for chaperones, and how many are for students?

1. Solve this problem in *one* of three ways:
* Use a triple number line.
* 
* Use a table.
(Fill rows as needed.)

| * kids
 | * chaperones
 | * total
 |
| --- | --- | --- |
| * 15
 | * 2
 | * 17
 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

* Use a tape diagram.
* 
1. After your class discusses all three strategies, which do you prefer for this problem and why?

### 3 Salad Dressing and Moving Boxes

#### Student Task Statement

Solve each problem, and show your thinking. Organize it so it can be followed by others. If you get stuck, consider drawing a double number line, table, or tape diagram.

1. A recipe for salad dressing calls for 4 parts oil for every 3 parts vinegar. How much oil should you use to make a total of 28 teaspoons of dressing?
2. Andre and Han are moving boxes. Andre can move 4 boxes every half hour. Han can move 5 boxes every half hour. How long will it take Andre and Han to move all 72 boxes?



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