

Unit 2 Lesson 12: 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.



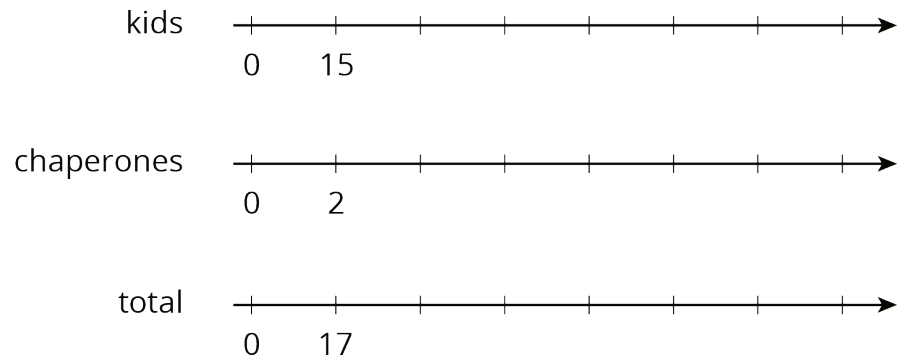
2 A Trip to the Aquarium

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.



2. 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?