More Part-Part-Whole

Ratios & Rates • Answer Key

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 12

Problems 1–2: Pizza dough is made from 3 parts flour and 1 part water.

1. **How much flour is needed to make 32 ounces of dough?** 24 ounces

2. **How much water is needed to make 32 ounces of dough?** 8 ounces

Problems 3–4: Trail mix is made from 4 parts nuts and 5 parts raisins.

3. **How many ounces of nuts are needed to make 45 ounces of trail mix?** 20 ounces

4. **How many ounces of raisins are needed to make 45 ounces of trail mix?** 25 ounces

Problems 5–6: One batch of green paint uses 4 teaspoons of yellow paint for every 6 teaspoons of blue paint.

5. **Complete the table to show the yellow and blue paint needed for each amount of green paint.**

Yellow Paint (tsp)	Blue Paint (tsp)	Green Paint (tsp)
4	6	10
2	3	5
10	15	25
20	30	50

6. **Lena made 15 teaspoons of green paint using 5 teaspoons of yellow paint. Is Lena using the same recipe? Explain your thinking.**

No. 15 teaspoons is 1½ batches of 10, so it should use 6 teaspoons of yellow and 9 teaspoons of blue. Lena used 5 yellow and 10 blue.

7. **A summer camp has 1 counselor for every 6 campers. There are 91 counselors and campers in all. How many counselors and how many campers are there? Show or explain your thinking.**

13 counselors and 78 campers. Each group has 1 + 6 = 7 people. 91 ÷ 7 = 13 groups, so there are 13 counselors and 13 × 6 = 78 campers.

8. **A museum requires 2 adult chaperones for every 9 students. A teacher buys 66 tickets in all. How many tickets are for adults and how many are for students? Show or explain your thinking.**

12 adult tickets and 54 student tickets. Each group has 2 + 9 = 11 people. 66 ÷ 11 = 6 groups, so there are 6 × 2 = 12 adults and 6 × 9 = 54 students.

9. **A fruit salad uses 3 cups of melon for every 2 cups of grapes. Dev wants to make 20 cups of fruit salad. He says he needs 12 cups of melon and 8 cups of grapes. Is Dev correct? Explain your thinking.**

Yes. One batch makes 3 + 2 = 5 cups. 20 ÷ 5 = 4 batches, so he needs 4 × 3 = 12 cups of melon and 4 × 2 = 8 cups of grapes.