Part-Part-Whole Ratios

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 11

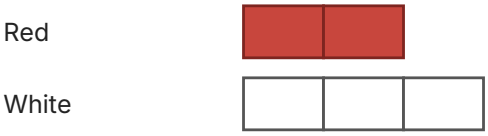
Problems 1–2: At a shoe store, the ratio of pairs of sneakers to pairs of sandals is 5 : 4. There are 63 pairs of sneakers and sandals in all.

1. **How many pairs of sneakers are there?** 35

2. **How many pairs of sandals are there?** 28

63 ÷ 9 parts = 7 pairs per part. Sneakers: 5 × 7 = 35. Sandals: 4 × 7 = 28.

Problems 3–4: The tape diagram shows the ratio of red paint to white paint in a pink paint.

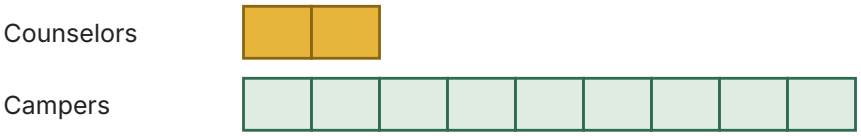


3. **What is the ratio of red paint to white paint?** 2 : 3

4. **Complete the table to show the amount of red and white paint in each amount of pink paint.**

Pink (gal)	Red (gal)	White (gal)
10	4	6
25	10	15
40	16	24
1	0.4	0.6

Problems 5–6: The tape diagram shows the ratio of counselors to campers on a field trip.



5. What is the ratio of counselors to campers? 2 : 9

6. Complete the table to show the number of counselors and campers for each total number of people.

Total People	Counselors	Campers
22	4	18
55	10	45
110	20	90

7. Lucy has a jar of 120 buttons. The ratio of large buttons to small buttons is 1 : 5. How many large buttons does she have? Show or explain your thinking.

20 large buttons. There are 6 parts in all, and 120 ÷ 6 = 20 buttons per part. Large buttons are 1 part.

8. An animal shelter has 72 animals. The ratio of cats to other animals is 5 : 1. How many cats are at the shelter? Show or explain your thinking.

60 cats. There are 6 parts, and 72 ÷ 6 = 12 animals per part. Cats are 5 parts: 5 × 12 = 60.