LESSON MAKER PRO

Ratio Code

Write comparisons in three clear forms.

GRADE 6 · 6.PFA.1.b

6.PFA.1.b "Represent a relationship in context that makes a comparison by using the notations ab, a:b, and a to b."

NAME _____ DATE _____

ONE COMPARISON, THREE FORMS

A ratio compares two quantities in a stated order. You can write the same comparison as a/b, a:b, or a to b. Keep the quantities in the same order in every form.

WORKED EXAMPLE

At an art station, 7 students use markers and 11 students use colored pencils. Write markers to colored pencils in all three forms.

1. The first quantity, markers, is 7.
2. The second quantity, colored pencils, is 11.
3. Write the comparison in order: 7/11, 7:11, and 7 to 11.

Answer: 7/11, 7:11, 7 to 11

PRACTICE 5 problems

1 A team has 9 red jerseys and 4 blue jerseys. Write red jerseys to blue jerseys using a colon.

ANSWER _____

2 A game shelf has 12 strategy games and 5 card games. Write strategy games to card games using to notation.

ANSWER _____

3 For every 3 music tracks on a playlist, there are 8 podcast episodes. Write music tracks to podcast episodes as a fraction.

ANSWER _____

4 A shelf has 6 graphic novels and 13 nonfiction books. Write graphic novels to nonfiction books using a colon.

ANSWER _____

5 A playlist has 10 pop songs and 15 rock songs. Write pop songs to rock songs in all three forms.

ANSWER _____

APPLY IT Show your work

1 During a game design club vote, 17 students choose a puzzle theme and 6 students choose a racing theme. Write puzzle theme to racing theme in all three forms.

WORK SPACE

ANSWER _____

2 At a livestream event, 13 students choose chat moderator and 9 students choose camera operator. Write camera operator to chat moderator as a fraction.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A makerspace has 15 battery packs and 10 controllers. Jordan writes controllers to battery packs as 15/10. Give the correct ratio in all three forms. Explain why Jordan's fraction has the wrong order.

WORK SPACE AND ANSWER

ANSWER KEY

Ratio Code

GRADE 6 · 6.PFA.1.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A team has 9 red jerseys and 4 blue jerseys. Write red jerseys to blue jerseys using a colon.	**9:4**
2	A game shelf has 12 strategy games and 5 card games. Write strategy games to card games using to notation.	**12 to 5**
3	For every 3 music tracks on a playlist, there are 8 podcast episodes. Write music tracks to podcast episodes as a fraction.	**3/8**
4	A shelf has 6 graphic novels and 13 nonfiction books. Write graphic novels to nonfiction books using a colon.	**6:13**
5	A playlist has 10 pop songs and 15 rock songs. Write pop songs to rock songs in all three forms.	**10/15, 10:15, 10 to 15**

PART 2 · APPLY IT

1. **17/6, 17:6, 17 to 6** Use 17 first because puzzle theme is named first, then use 6 for racing theme.
2. **9/13** Camera operator is the first quantity, so write 9 over 13.

CHALLENGE

10/15, 10:15, 10 to 15. Controllers come first, so 10 must be first. Jordan put the 15 battery packs first.

Accept equivalent ratios, such as 2/3 for 10/15, when the quantities stay in the requested order. Accept any of the three requested notations when written correctly.