LESSON MAKER PRO

Ratio Match-Up

Compare two quantities in the correct order.

GRADE 6 · 6.PFA.1.a

6.PFA.1.a "Represent a relationship between two quantities using ratios."

NAME _____ DATE _____

RATIO ORDER MATTERS

A ratio compares two quantities in a stated order. Put the first named quantity first, then simplify by dividing both terms by the same factor.

WORKED EXAMPLE

A class collects 16 cans and 28 bottles. Write the ratio of cans to bottles in simplest form.

1. Start with cans to bottles: 16:28.
2. Both terms divide by 4.
3. 16/4 = 4 and 28/4 = 7.

Answer: 4:7

PRACTICE 6 problems

1 A pet shelter has 10 cats and 15 dogs. Write the ratio of cats to dogs in simplest form.

ANSWER _____

2 A bracelet has 9 blue beads and 6 green beads. Write the ratio of green beads to all beads in simplest form.

ANSWER _____

3 A snack mix has 20 raisins and 8 pretzels. Write the ratio of pretzels to raisins in simplest form.

ANSWER _____

4 A library display has 27 mystery books and 9 nonfiction books. Write the ratio of mystery books to nonfiction books in simplest form.

ANSWER _____

5 A game club has 22 students playing chess and 33 students playing card games. Write the ratio of chess players to card game players in simplest form.

ANSWER _____

6 A recipe uses 6 cups of flour and 30 cups of oats. Write the ratio of flour to oats in simplest form.

ANSWER _____

APPLY IT Show your work

1 At a school fair, Kai sells 45 sticker packs and 25 button packs. Write the ratio of sticker packs to button packs in simplest form.

WORK SPACE

ANSWER _____

2 A music app playlist has 36 pop songs and 54 hip-hop songs. Write the ratio of pop songs to hip-hop songs in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics team orders battery packs and sensors in a ratio of 5:8. They order 65 items altogether. How many battery packs and how many sensors do they order? Write the actual relationship as a ratio.

WORK SPACE AND ANSWER

ANSWER KEY

Ratio Match-Up

GRADE 6 · 6.PFA.1.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A pet shelter has 10 cats and 15 dogs. Write the ratio of cats to dogs in simplest form.	**2:3**
2	A bracelet has 9 blue beads and 6 green beads. Write the ratio of green beads to all beads in simplest form.	**2:5**
3	A snack mix has 20 raisins and 8 pretzels. Write the ratio of pretzels to raisins in simplest form.	**2:5**
4	A library display has 27 mystery books and 9 nonfiction books. Write the ratio of mystery books to nonfiction books in simplest form.	**3:1**
5	A game club has 22 students playing chess and 33 students playing card games. Write the ratio of chess players to card game players in simplest form.	**2:3**
6	A recipe uses 6 cups of flour and 30 cups of oats. Write the ratio of flour to oats in simplest form.	**1:5**

PART 2 · APPLY IT

1. **9:5** Start with 45:25. Divide both terms by 5 to get 9:5.
2. **2:3** Start with 36:54. Divide both terms by 18 to get 2:3.

CHALLENGE

25 battery packs and 40 sensors; 25:40 = 5:8

Accept equivalent ratio notation with a colon, words, or a fraction if the order is correct. Require simplest form for items that ask for it.