

Ratio Matchup

Name and describe comparisons in the correct order.

GRADE 6 • NY-6.RP.1

NY-6.RP.1 "Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities."

NAME _____

DATE _____

RATIOS COMPARE QUANTITIES

A ratio compares two quantities. The order matters: $a:b$ means a to b , so name the first quantity first and the second quantity second.

WORKED EXAMPLE

A reading cart has 8 mystery books and 13 graphic novels. Write the ratio of mystery books to graphic novels.

1. Start with mystery books because they are named first.
2. There are 8 mystery books and 13 graphic novels.
3. Write the ratio as 8:13.

Answer: 8:13, or 8 to 13

PRACTICE 6 problems

- 1** A smoothie stand has 6 mango smoothies and 4 berry smoothies. Write the ratio of mango smoothies to berry smoothies.

ANSWER _____

- 2** A game team has 9 defenders and 12 attackers. Write the ratio of attackers to defenders.

ANSWER _____

- 3** A snack has 2 cups of oats and 1 cup of yogurt. Write the ratio of oats to yogurt and the ratio of yogurt to oats.

ANSWER _____

- 4** The ratio of stickers to trading cards is 5:10. Describe this ratio using words.

ANSWER _____

- 5** There are 15 blue tiles and 3 white tiles. Write the ratio of total tiles to white tiles.

ANSWER _____

- 6** A garden has 14 tomato plants and 21 pepper plants. Describe the ratio of tomato plants to pepper plants using words.

ANSWER _____

APPLY IT Show your work

- 1** Jordan's study playlist has 16 instrumental tracks and 20 tracks with words. Write the ratio of tracks with words to total tracks. Then describe what the ratio means.

WORK SPACE

ANSWER _____

- 2** The after-school gaming club has 24 sixth graders and 18 seventh graders. Write the ratio of sixth graders to seventh graders. Then describe what the ratio means.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Club A has 3 volunteer leaders for 5 teams. Club B has 6 volunteer leaders for 10 teams. Do the clubs have the same leaders-to-teams ratio? Explain your reasoning.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A smoothie stand has 6 mango smoothies and 4 berry smoothies. Write the ratio of mango smoothies to berry smoothies.	6:4
2	A game team has 9 defenders and 12 attackers. Write the ratio of attackers to defenders.	12:9
3	A snack has 2 cups of oats and 1 cup of yogurt. Write the ratio of oats to yogurt and the ratio of yogurt to oats.	Oats to yogurt: 2:1. Yogurt to oats: 1:2.
4	The ratio of stickers to trading cards is 5:10. Describe this ratio using words.	There are 5 stickers for every 10 trading cards.
5	There are 15 blue tiles and 3 white tiles. Write the ratio of total tiles to white tiles.	18:3
6	A garden has 14 tomato plants and 21 pepper plants. Describe the ratio of tomato plants to pepper plants using words.	There are 14 tomato plants for every 21 pepper plants.

PART 2 • APPLY IT

- 20:36. There are 20 tracks with words for every 36 tracks in the playlist.** Find the total number of tracks: $16 + 20 = 36$. Put tracks with words first because that quantity is named first.
- 24:18. There are 24 sixth graders for every 18 seventh graders.** Use the quantities in the order requested. Sixth graders are first, followed by seventh graders.

CHALLENGE

Yes. Club A has a ratio of 3:5, and Club B has a ratio of 6:10. Multiplying both parts of 3:5 by 2 gives 6:10, so the ratios are equivalent.

Accept ratios written with a colon, the word "to," or as a fraction when the order is correct. Accept equivalent ratios, such as 3:2 for 6:4, unless the student is asked to use the given quantities in a word description.