

Ratio Table Trail

Build matching pairs that keep a ratio equal.

GRADE 6 • 6.PFA.1.e

6.PFA.1.e "Create a table of equivalent ratios to represent a proportional relationship between two quantities, when given a ratio."

NAME _____

DATE _____

KEEP BOTH PARTS TOGETHER

Equivalent ratios have the same multiplicative comparison. To make a table, multiply both parts of the ratio by the same whole number and keep each pair in the same order.

WORKED EXAMPLE

Create a table of equivalent ratios for 17:19.

1. Start with 17:19.
2. Multiply both parts by 2 to get 34:38.
3. Multiply both parts by 3 to get 51:57.
4. Place the matching pairs in a table.

Answer: 17:19, 34:38, 51:57

PRACTICE 6 problems

- 1** Create a table with the original ratio and two more equivalent ratios for 5:7.

ANSWER _____

- 2** Create a table with the original ratio and two more equivalent ratios for 6:9.

ANSWER _____

- 3** Create a table with the original ratio and two more equivalent ratios for 8:11.

ANSWER _____

- 4** Create a table with the original ratio and two more equivalent ratios for 7:12.

ANSWER _____

- 5** Create a table with the original ratio and two more equivalent ratios for 9:5.

ANSWER _____

- 6** Create a table with the original ratio and two more equivalent ratios for 11:6.

ANSWER _____

APPLY IT Show your work

- 1** A school podcast team uses 8 sound clips for every 5 podcast episodes. Create a table that shows the number of sound clips needed for 5, 10, 15, and 20 episodes.

WORK SPACE

ANSWER _____

- 2** A game club earns 7 points for every 6 completed challenges. Create a table that shows the points earned for 6, 12, 18, and 24 completed challenges.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A skate shop packs 9 stickers for every 8 prize bags. Make a table for 8, 24, and 40 prize bags. Then explain whether 45 stickers for 40 prize bags belongs in this relationship.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Create a table with the original ratio and two more equivalent ratios for 5:7.	5:7, 10:14, 15:21
2	Create a table with the original ratio and two more equivalent ratios for 6:9.	6:9, 12:18, 24:36
3	Create a table with the original ratio and two more equivalent ratios for 8:11.	8:11, 16:22, 24:33
4	Create a table with the original ratio and two more equivalent ratios for 7:12.	7:12, 14:24, 21:36
5	Create a table with the original ratio and two more equivalent ratios for 9:5.	9:5, 18:10, 27:15
6	Create a table with the original ratio and two more equivalent ratios for 11:6.	11:6, 22:12, 33:18

PART 2 • APPLY IT

- 8:5, 16:10, 24:15, 32:20** Keep sound clips first and episodes second. Multiply both parts of 8:5 by the same scale factor for each row.
- 7:6, 14:12, 21:18, 28:24** Keep points first and completed challenges second. Scale both parts of 7:6 by the same amount for each row.

CHALLENGE

Table: 9:8, 27:24, 45:40. Yes, 45:40 belongs in the relationship because both parts of 9:8 were multiplied by 5.

Accept tables written in rows or columns when each pair stays in the stated order. Accept additional correct equivalent ratios if the required ratios are included.