LESSON MAKER PRO

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

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.

WORK SPACE AND ANSWER

ANSWER KEY

Ratio Table Trail

GRADE 6 · 6.PFA.1.e

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

1. **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.
2. **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.