ALBERT

Name _____ Date _____

Ratio Table Worksheet

Grade 6 · Common Core 6.RP.A.3a

> Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.

Practice

Builds the skill step by step.

1. The table shows a juice mix made with the same ratio each time. Find the missing value.

Juice (cups)	Water (cups)
2	3
4	?
6	9

2. Pencils cost the same amount each. Find the missing cost in the table.

Pencils	Cost ($)
1	2
3	6
5	?

3. A shelter has 3 cats for every 5 dogs. Which pair could be another row in its ratio table?

   A. 6 cats, 10 dogs

   B. 6 cats, 8 dogs

   C. 4 cats, 6 dogs

   D. 9 cats, 10 dogs

4. A bracelet uses 4 red beads for every 1 blue bead. How many red beads go with 4 blue beads?

Blue beads	Red beads
1	4
2	8
3	12
4	?

5. A swimmer swims 5 laps every 2 minutes. Complete the table: how many laps in 6 minutes?

Minutes	Laps
2	5
4	10
6	?

6. Movie tickets cost the same amount each. How many tickets cost $42?

Tickets	Cost ($)
2	14
4	28
?	42

7. Which list shows only equivalent ratios?

   A. 1 : 3, 2 : 5, 3 : 7

   B. 1 : 3, 2 : 6, 3 : 9

   C. 2 : 3, 3 : 4, 4 : 5

   D. 1 : 2, 2 : 3, 3 : 4

8. A recipe uses 2 eggs for every 3 cups of flour. Make a ratio table. How many eggs go with 12 cups of flour?

9. A job pays the same amount every hour. How many hours does it take to earn $60?

Hours	Pay ($)
1	12
2	24
?	60

10. Each bag holds 4 apples. In a ratio table of bags (x) to apples (y), what ordered pair should be plotted for 3 bags?

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On Level

Grade-level practice.

1. A paint color uses blue and yellow paint in the same ratio. Find the two missing values.

Blue (cups)	Yellow (cups)
3	4
6	?
?	12
12	16

2. A store sells 3 shirts for $27. Use a ratio table to find the cost of 12 shirts.

3. Mix A uses 2 cups of lemon juice for every 5 cups of water. Mix B uses 3 cups of lemon juice for every 8 cups of water. Extend both ratio tables to 40 cups of water. Which mix is more lemony?

   A. Mix A: 16 cups of juice to 40 cups of water

   B. Mix B: 15 cups of juice to 40 cups of water

   C. They taste the same

   D. Mix B, because 8 is more than 5

4. A runner keeps a steady pace. How many minutes does it take her to run 5 miles?

Miles	Minutes
3	24
5	?

5. A recipe uses 4 cups of flour to make 24 cookies. How many cups of flour are needed for 60 cookies?

6. A ratio table relates hours worked (x) to dollars earned (y): (1, 9), (2, 18), (3, 27). What y-value goes with x = 7?

7. The points (2, 6), (4, 12) and (6, 18) come from one ratio table. Which point also belongs in the table?

   A. (5, 16)

   B. (5, 15)

   C. (8, 20)

   D. (3, 6)

8. A club keeps the same ratio of boys to girls. How many boys go with 35 girls?

Boys	Girls
5	7
10	14
?	35

9. In Class A, 12 students walk to school for every 18 who ride. In Class B, 10 walk for every 15 who ride. Are the ratios equivalent? Explain.

10. A car uses gas at a steady rate. How many gallons does it use to drive 175 miles?

Gallons	Miles
2	50
?	175

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Challenge

Multi-step and word problems that stretch it.

1. Brand X mixes 3 cups of juice with 2 cups of water. Brand Y mixes 5 cups of juice with 4 cups of water. Which brand has more juice for each cup of water? Give that amount.

2. Grapes are sold at the same price per pound. Find both missing values.

Pounds	Cost ($)
2	7
?	17.50
8	?

3. Sam and Ana save money in a ratio of 3 : 5. Together they have saved $96. How much has Ana saved?

4. A pink paint uses 2 parts red to 7 parts white. How many cups of red paint are in 54 cups of pink paint?

5. A ratio table shows a reader's pace: 4 minutes, 6 pages; 6 minutes, 9 pages; 10 minutes, 15 pages. Which statement is true?

   A. The reader reads 2 pages per minute.

   B. The reader reads 1.5 pages per minute.

   C. Plotted, the points form a line that misses (0, 0).

   D. In 20 minutes the reader reads 25 pages.

6. At a show, the ratio of adults to children is 4 : 9. There are 65 more children than adults. How many people are at the show?

7. Trail mix uses 3 cups of oats for every 2 cups of raisins. Jo has 12 cups of oats and 10 cups of raisins. What is the most trail mix, in cups, she can make with this ratio?

8. Nia made a ratio table for a walk of 2 miles every 1 hour. She wrote miles 2, 4, 6 and hours 1, 3, 5. What is wrong, and what should the hours be?

9. On a map, 2 inches represent 15 miles. Two towns are 9 inches apart on the map. How many miles apart are they?

10. 6 pencils cost $4. At the same rate, how much do 15 pencils cost?