

7.2 Using Table to Explore Equivalent Ratios and Rates

Pg. 356

4/17/18

Learn to use a table to find equivalent ratios and rates.

Reading Math

Finding equivalent ratios is sometimes referred to as "scaling up" or "scaling down."

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Use a table to find ratios equivalent to 3 to 2.

	Original Ratio	3 • 2	3 • 3	3 • 4	3 • 10
Pints of yellow		3	6	9	12
Pints of blue		2	4	6	8
					$\frac{30}{20}$

$2 \cdot 2$ $2 \cdot 3$ $2 \cdot 4$ $2 \cdot 10$

You can increase amounts but keep them in the same ratio by multiplying both the numerator and denominator of the ratio by the same number. The ratios 3 to 2, 6 to 4, 9 to 6, and 12 to 8 are equivalent. You can also decrease amounts in the same ratio by dividing the numerator and denominator by the same number.

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Use a table to find the equivalent ratios.

$$\frac{6}{7}$$

6 • 2 6 • 3 6 • 4

6	12	18	24
7	14	21	28

7 • 2 7 • 3 7 • 4

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Helpful Hint

Multiplying by 2, 3, and 4 will give you three equivalent ratios, but there are many other equivalent ratios that are correct.

Use a table to find the equivalent ratios.

3 to 5

$$\frac{3}{5}$$

3 • 2 3 • 3 3 • 4

3	6	9	12
5	10	15	20

5 • 2 5 • 3 5 • 4

Use a table to find the equivalent ratios.

48:36

48 ÷ 2 48 ÷ 3 48 ÷ 4

48	24	16	12
36	18	12	9

36 ÷ 2 36 ÷ 3 36 ÷ 4

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Use a table to find the equivalent ratios.

$$\frac{3}{8}$$

3	6	9	12
8	16	24	32

Use a table to find the equivalent ratios.

2 to 9

2	4	6	8
9	18	27	36

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Use a table to find the equivalent ratios.

36:12

36	18	12	9
12	6	4	3

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Several groups of friends are going to take a shuttle bus to the park. The table shows how much the different groups will pay in all. Predict how much a group of 15 friends will pay.

Number in Group	3	5	12	15	18
Bus Fare(\$)	6	12	24	30	36

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Several groups of friends are purchasing tickets to an amusement park. The table shows how much the different groups will pay in all. Predict how much a group of 7 friends will pay.

Number in Group	1	4	5	6	8
Tickets(\$)	.5	2	3	4	5

$$\frac{7}{35}$$

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Lesson Quiz: Part I

Use a table to find three equivalent ratios.

- $\frac{1}{3}$
- $\frac{9}{4}$
- $\frac{12}{60}$

1	3	4
3	9	12

9	18	27	36
4	8	12	16

2	6	4	3
60	30	20	15

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4. Fred is saving for a new sound system. The table shows some amounts he could save in different numbers of weeks. Predict the amount of his savings after 10 weeks.

Weeks	2	4	8	10	12
Savings	5	10	20	25	30

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