

Name: _____

Finding Missing Values in Ratio Tables

A ratio table is just a group of equivalent ratios. The value of a ratio can be used to find the missing value.

Step 1:

Determine the value of the ratio. This is just the ratio written as a fraction (a/b). _____

Step 2:

If a value from the first column is missing, multiply the value in the second column by a/b. _____

Step 3:

If a value from the second column is missing, multiply the value in the first column by b/a. _____

Example

A	B
4	11
8	22
16	
40	16
	165

Fill in the missing values in the tables below.

1.

	5
16	
20	25
36	
	60

2.

12	
36	78
60	
	143
	169

3.

7	
	12
35	15
42	
	30

4.

2	15
	30
8	
20	
	180

5. Describe the steps you used to find the values of the blanks in #4.

Name: _____

Finding Missing Values in Ratio Tables

A ratio table is just a group of equivalent ratios. The value of a ratio can be used to find the missing value.

Step 1:

Determine the value of the ratio. This is just the ratio written as a fraction (a/b). $\frac{4}{11}$

Step 2:

If a value from the first column is missing, multiply the value in the second column by a/b. $165 \times \frac{4}{11} = 60$

Step 3:

If a value from the second column is missing, multiply the value in the first column by b/a. $8 \times \frac{11}{4} = 22$

Example

A	B
4	11
8	22
16	
40	16
	165

Fill in the missing values in the tables below.

1.

4	5
16	20
20	25
36	45
48	60

2.

12	26
36	78
60	130
66	143
78	169

3.

7	3
28	12
35	15
42	18
70	30

4.

2	15
4	30
8	60
20	150
24	180

5. Describe the steps you used to find the values of the blanks in #4.

The value of the ratio in #4 is $\frac{2}{15}$. So to find the values in the first column I multiplied $30 \times \frac{2}{15} = 4$ and $180 \times \frac{2}{15} = 24$. Then to find the values in the second column I used the value $\frac{15}{2}$ and multiplied. $8 \times \frac{15}{2} = 60$ and $20 \times \frac{15}{2} = 150$.