

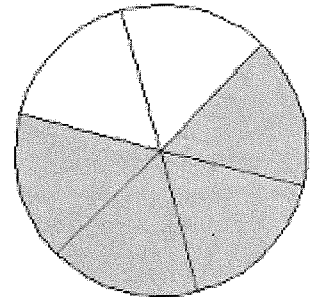
Lesson Summary

The *value of the ratio* $A:B$ is the quotient $\frac{A}{B}$ as long as B is not zero.

If two ratios are equivalent, then their values are the same (when they have values).

Problem Set

1. The ratio of the number of shaded sections to the number of unshaded sections is 4 to 2. What is the value of the ratio of the number of shaded pieces to the number of unshaded pieces?



2. Use the value of the ratio to determine which ratios are equivalent to 7:15.
- 21:45
 - 14:45
 - 3:5
 - 63:135
3. Sean was at batting practice. He swung 25 times but only hit the ball 15 times.
- Describe and write more than one ratio related to this situation.
 - For each ratio you created, use the value of the ratio to express one quantity as a fraction of the other quantity.
 - Make up a word problem that a student can solve using one of the ratios and its value.
4. Your middle school has 900 students. $\frac{1}{3}$ of students bring their lunch instead of buying lunch at school. What is the value of the ratio of the number of students who do bring their lunch to the number of students who do not?