

NAME: \_\_\_\_\_

*P.I. A.N.5: Solve algebraic problems arising from situations that involve proportionality/direct variation*

1. Explain the term “ratio” to a classmate. Provide your classmate with an example of a ratio.
2. When a coach asked her team members what they wanted for dinner, 13 members wanted pizza while 5 wanted hamburgers. Identify two different ratios that could be made from this information. Explain each.
3. Jon needs to lease a new truck. One dealership offers him a lease at the rate of \$6,000 per year. Another dealership offers him a lease of the same type of truck at the rate of \$15.00 per day. How could you use your knowledge of ratios to determine the most economical lease? Identify the better arrangement.

- A ratio is a comparison of two numbers. Examples may vary but may include the number of boys versus the number of girls in a classroom.
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- 13 : 18 is a ratio identifying the number of team members who ordered pizza compared to the total number of team members. 5 : 18 is a ratio identifying the number of team members who wanted hamburgers compared to the total number of team members.
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- Set up a ratio to determine the daily rate of the yearly lease offer or 6000:365 which equals about 16:1. Therefore, the rate of \$15.00 per day is the most economical arrangement.
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