

Name: _____
Algebra 1

Date: _____
Band: _____

LT#5: Write equations that represent functions..

1. A landfill has 50,000 tons of water in it. Each month it accumulates an average of 420 more tons of waste. What is a function rule that represents the total amount of waste after m months?

2. **A.** A kennel charges \$15 per day to board dogs. Upon arrival, each dog must have a flea bath that costs \$12. Write a function rule for the total cost for n days of boarding plus a bath. How much does a 10-day stay cost?

B. Does a 5-day stay cost half as much as a 10-day stay? Explain.

3. **A.** Write a function rule for the area of a triangle whose height is 4 in. more than twice the length of its base. What is the area of the triangle when the length of its base is 16 in.?

B. Graph the function rule. How do you know the rule is nonlinear?



