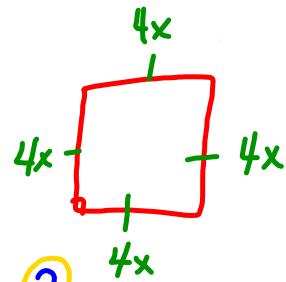**13.** You are mowing a square lawn that has side lengths of $4x$ yards. Write an expression in simplest form that represents the area of the lawn that you are mowing.
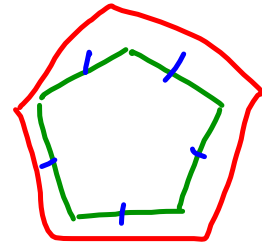
lengths $= 4x$

Area $= (l)(w) = (4x)(4x) = 16x^2$

Area $= (s)^2 = (4x)^2$

$= (4)^2(x)^2$

$= 16x^2$

14. Each of the side lengths of a regular pentagon is $(x + 4)$ centimeters. Write an equation in simplest form that represents the perimeter of the pentagon. When you triple x, does the perimeter of the pentagon triple? Explain.

Lengths = $(x + 4)$ cm

Perimeter is distance around
found by adding

$P = (x + 4) + (x + 4) + (x + 4) + (x + 4) + (x + 4)$

$5x + 20$

15. Are the expressions $6b^2 - 3c + 4b^2 + 4c$ and $10b^2 + 5c - 4c$ equivalent? Explain your reasoning.

16. The expression $\frac{5}{9}(F - 32)$ converts temperature from degrees Fahrenheit to degrees Celsius. What is the temperature in degrees Celsius when the temperature is 105°F?

17. What does the expression $28v + 15v + 5v$ represent in the data display? Find and interpret the value when $v = 8$.

Average Craft Show Vendor Sales