



MINDING THE FENCE

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The Australian government constructed the longest continuous fence in the world to battle its out-of-control rabbit population. Construction started in 1901 and took several years to complete. During the delay, rabbits overran the first fence, so a total of three sections were needed. There is a total of 3,256 km of fencing that needs routine maintenance. Communities take responsibility for different sections.

STEP 1: Your school is scheduled to repair a section of fence. The group will bus to the fence together. The principal rented a bus for US\$23. Each person attending pays US\$5 for a snack. Using that information, fill out the table below.

Number of People	1	2	4	9	10
Total Cost					

STEP 2: Using the table, graph the data.

STEP 3

1. What is the cost if nobody shows up?
2. How much does the price increase for each person who comes? How do you know?
3. What is another term for how much the price increases?
4. If you wanted to know how much it would cost if 50 people came, is there an equation that would show any number?
5. Are there any real life limitations to the value of X ?