Problem Solving: Multi-Step Problems

Solve. Explain why your answer makes sense.

1. The area of a wall is 52 ft². A can of paint that will cover 13 ft² costs $9.98. How much will paint cost to cover the wall?

\[
\frac{52}{13} = \frac{52}{13} \quad \text{ft} \\
\frac{52}{13} \times 9.98 = \frac{52}{13} \quad \text{cost}
\]

2. The perimeter of a complex figure is 128 m. Kelsey wants to place lighting around the border of the figure. She can buy the lighting in strands of 8 m. How many strands of lighting does she need to buy?

3. What is the area of the sandbox shown below?

4. Use the figure in Problem 3. Tony wants to place a fence around the sandbox. A roll of fencing is 4 feet long. How many rolls of fencing should he buy?

5. The grass in Jenna's lawn has not grown in too well. She plans to throw more seed onto her lawn. A 1-lb bag of seed costs $22 and covers 60 m². A 5-lb bag of seed costs $88 and covers 300 m². How much will Jenna spend on grass seed for her lawn?

6. Use the figure in Problem 5. Jenna wants to build a fence around her yard. She has 75 meters of fence. How many more meters of fence does she need to buy?