Deforestation at Scale

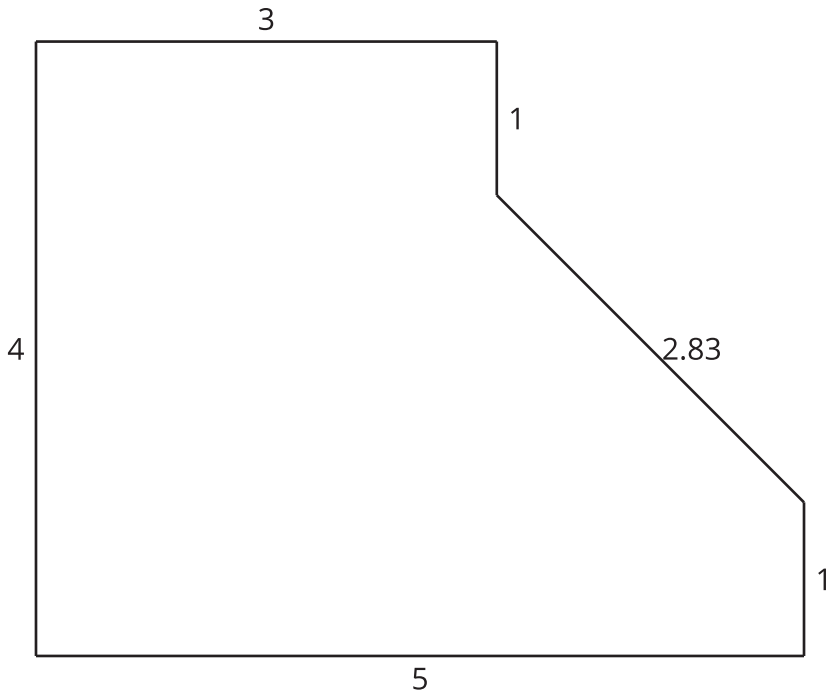
Let's compare the forested area over time.

8.1 Scaling a Room

Here is a scale drawing of a room. The drawing has the following scale:

1 unit in the drawing represents 4 feet in the actual room.

Calculate the area of the actual room. Be prepared to explain your reasoning.



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8.2 Making a Plan

Your teacher will give you two maps of the same place at different times. Work with your partner to make a plan of how you could decompose each map to find the area of forested land.

Note: while the maps are to scale, the trees are not.

8.3 Deforestation and Reforestation

Use your plan from the earlier activity to answer these questions:

1. What is the forested area, in square feet, shown in the first map?

2. What is the forested area, in square feet, shown in the second map?

3. How much deforestation happened during this time?

4. Was there any reforestation during this time? Explain your reasoning.