Analyze a proportional relationship to compute distance on a map

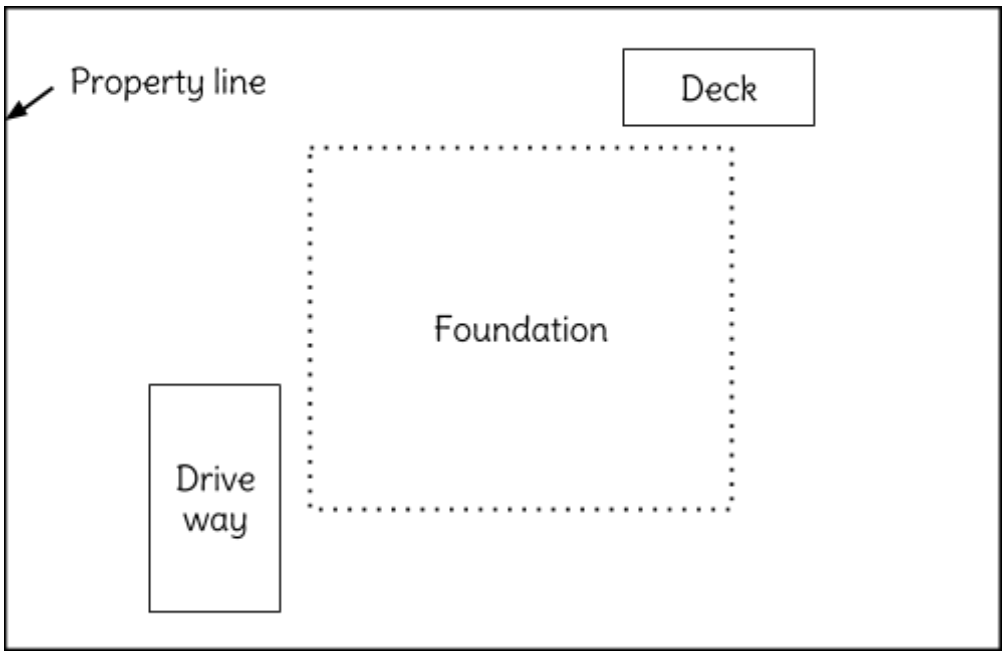
Practice Exercises

Name_____

Set A

Date_____

Your uncle and aunt have asked you to help cement the foundation of their newly purchased land. They give you a top-view blueprint of the area and proposed layout. A small legend on the corner states that 4 inches of length corresponds to an actual length of 52 feet.



1. What is the scale factor?

2. If the dimensions of the foundation on the blueprint are 11 inches by 13 inches, what are the actual dimensions in feet? Label the foundation in the picture with both inches and feet.

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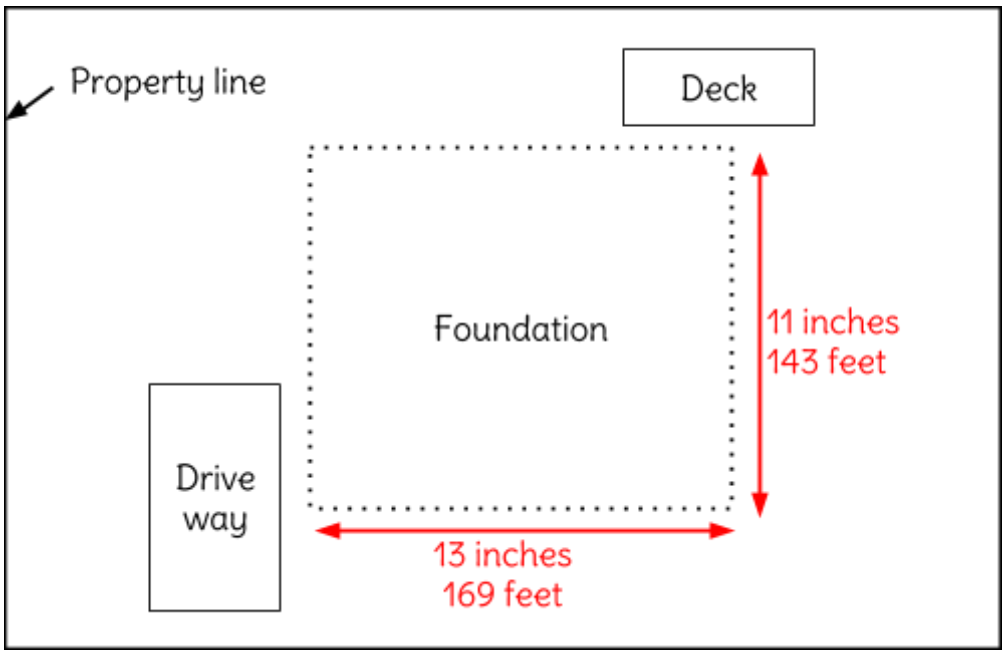
Answer Key

Your uncle and aunt have asked you to help cement the foundation of their newly purchased land. They give you a top-view blueprint of the area and proposed layout. A small legend on the corner states that 4 inches of length corresponds to an actual length of 52 feet.



1. What is the scale factor?

4 inches x 13 = 52 feet

The scale factor is 13

2. If the dimensions of the foundation are 11 inches by 13 inches, what are the actual dimensions in feet? Label the foundation in the picture with both inches and feet.

11 inches x 13 = 143 feet

13 inches x 13 = 169 feet

Students should label the drawing and recognize that the shorter side is 11 inches.