1 inch 8 feet

PERIOD

 1 inch to 4 feet • $\frac{1}{2}$ inch to 2 feet

• $\frac{1}{4}$ inch to 1 foot

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Lesson 9 Summary

If we want to create a scale drawing of a room's floor plan that has the scale "1 inch to 4 feet," we can divide the actual lengths in the room (in feet) by 4 to find the corresponding lengths (in inches) for our drawing.

DATE

the same relationship between lengths on a drawing and actual lengths:

These three scales are all equivalent, since they represent

There is more than one way to express this scale.

Any of these scales can be used to find actual lengths and scaled lengths (lengths on a drawing). For instance, we can tell that, at this scale, an 8-foot long wall should be 2 inches long on the drawing because $\frac{1}{4} \cdot 8 = 2$.

The size of a scale drawing is influenced by the choice of scale. For example, here is another scale drawing of the same room using the scale 1 inch to 8 feet.





