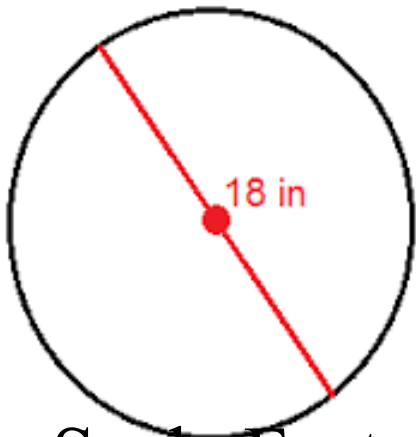


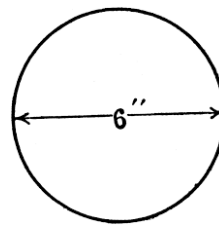
$\frac{1}{3}$  Are these shapes similar?

Yes, since all circles are the same shape.

Original

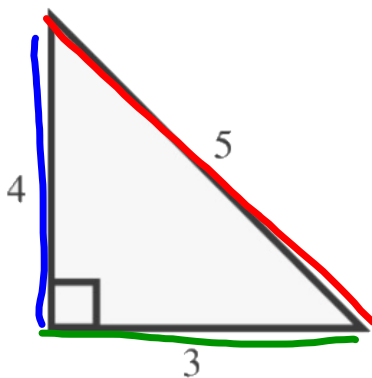


Copy



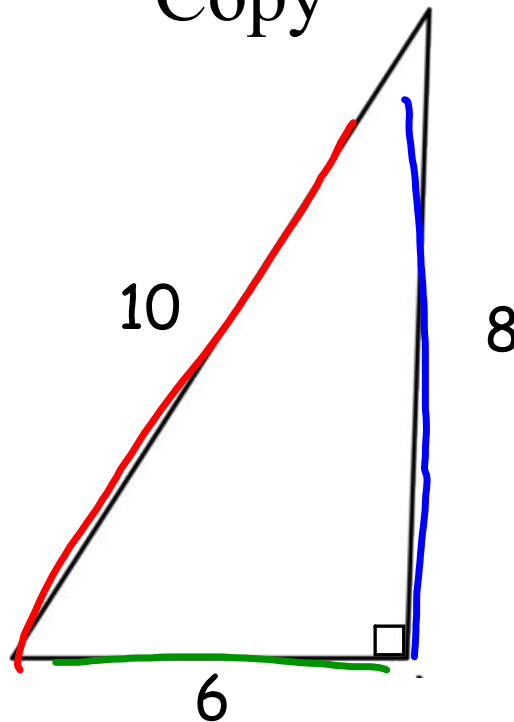
Scale Factor =  $\frac{6}{18}$  or  $\frac{1}{3}$

Original



Yes

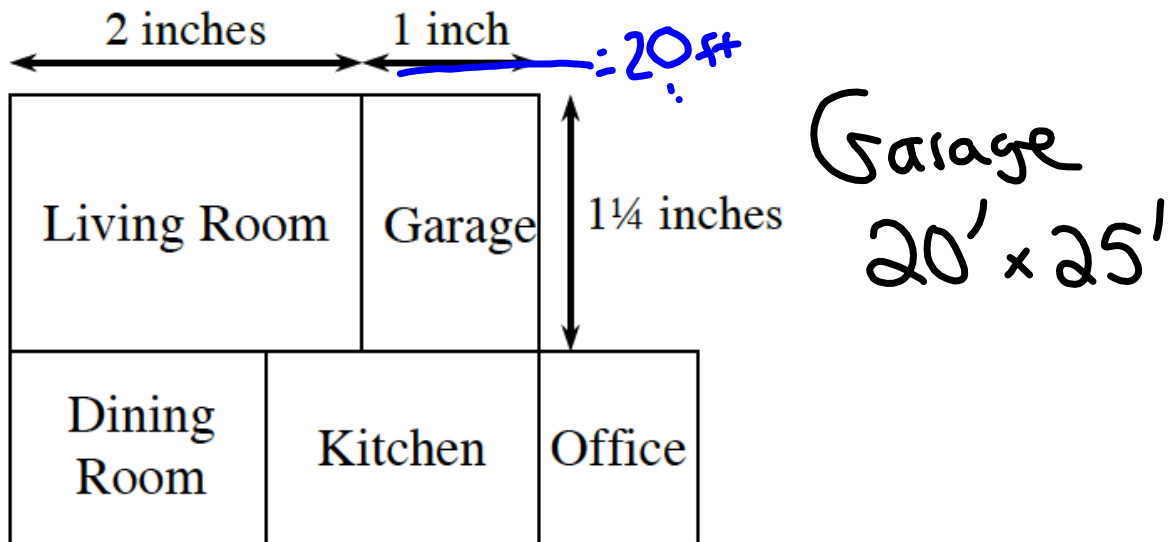
Copy



Are these shapes similar?

Yes, since all corresponding sides have the same scale factor.

Scale Factor =  $\frac{2}{1}$  or 2



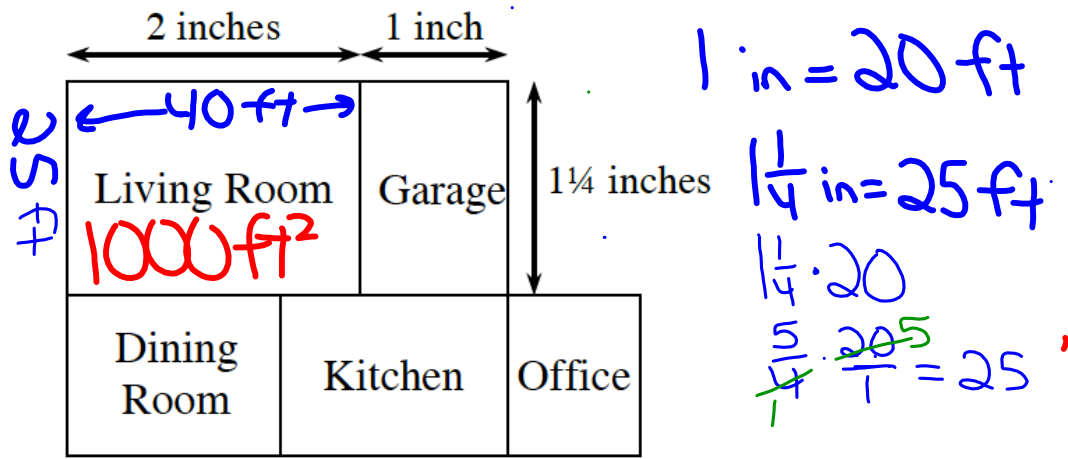
The scale drawing above shows the first floor of a house. The actual dimensions of the garage are 20 feet by 25 feet. All angles are right angles.

How many feet does each inch represent? That is, what is the scale?

1 in / 4 = 5 ft

Scale

1 in = 20 ft



If the family wants to lay carpet in the living room, and carpeting costs \$1.25 per square foot, how much will the carpet cost?

$$\begin{array}{r}
 25 \\
 \times 40 \\
 \hline
 00 \\
 100 \\
 \hline
 1000 \text{ ft}^2
 \end{array}$$

$$\begin{array}{r}
 1000 \\
 \times 1.25 \\
 \hline
 5000 \\
 20000 \\
 10000 \\
 \hline
 \$1250.00
 \end{array}$$

Melina's Solution below:

