

Possible Solutions for 1.

The perimeter of the shape below is 36 inches.



If a scale factor of $\frac{1}{2}$ is applied to the shape, what would happen to the perimeter?

Possible Solution 1

- Because the original perimeter is 36, $36 \times \frac{1}{2} = 18$ or $36 \div 2 = 18$, the new perimeter would be $\frac{1}{2}$ of the original perimeter.

Possible Solution 2

- The perimeter of a shape is a linear measurement, so applying the scale factor of $\frac{1}{2}$ to the shape means you just multiply the perimeter by the scale factor to get the new perimeter, which would be 18 inches.