

Transforming a square

A square is **transformed** by increasing its length and decreasing its other side by the same percentage amount. How does the **area** change?



Suppose a square is transformed by increasing its length by 10% and decreasing its adjacent side by the same amount. What is the resultant change in area?

What if the length and adjacent side of the original square were increased and decreased by 20% respectively.

How might you quickly determine the change in area of a square given any percentage increase in length and a decrease by the same percentage in the adjacent side?