

Calculation:

Let the length and breadth of rectangle be 'l' and 'b'.

So, area of rectangle = $l \times b$

The length of rectangle is increased = $l + 25\%$ of l

$\Rightarrow$ The length of rectangle is increased = $l + (25l)/100$

$\Rightarrow (5l)/4$

The breadth of rectangle is decreased = $b - 20\%$ of b

$\Rightarrow$ The breadth of rectangle is decreased = $b - (20b)/100$

$\Rightarrow (4b)/5$

New area of rectangle = $((5l)/4) \times ((4b)/5)$

$\Rightarrow$ New area of rectangle = lb

Change in area of rectangle = $lb - lb = 0$

Area of square = area of rectangle

So, change in the area of square = 0%

$\therefore$ The percent is changed in area of square is