

The fifth part of a number when increased by 5 equals its fourth part decreased by 5. Find the number.

ANSWER:

Let the number be x .

Then, we have:

$$\Rightarrow \frac{x}{5} + 5 = \frac{x}{4} - 5$$

$$\Rightarrow \frac{x}{5} - \frac{x}{4} = -5 - 5$$

$$\Rightarrow \frac{-x}{20} = -10$$

$$\Rightarrow x = 200$$

\therefore The required number is 200.