## Answer on Question \#73962 -Economics - Microeconomics

In one production period, a firm produced an output rate of 1,000 using 50 units of capital and 40 units of labor. In a later period, output was 1,500 units, the capital input was 60 units, and the labor input was 45 units. The base period input prices are $r=5$ and $w=10$. Determine total factor productivity in each period and the Percentage of change in that productivity between the two periods.

Answer.
$P=\frac{T P}{K r+L w}$

$$
\begin{gathered}
P_{1}=\frac{1000}{50 \times 5+40 \times 10}=1.54 \\
P_{2}=\frac{1500}{60 \times 5+45 \times 10}=2 \\
\frac{P_{1}}{P_{2}}=\left(\frac{2}{1.54}-1\right) \times 100=29.87 \%
\end{gathered}
$$

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