## Answer on Question \#48161, Physics, Mechanics | Kinematics | Dynamics

## Question:

The ratio of pressure force $L$ to friction force $D$ for an object $A$ in contact with object $B$ is $L / D=10$. what is the coefficient of friction of $A / B$ ?

## Answer:

Coefficient of friction equals:

$$
\mu=\frac{F_{f r}}{N}
$$

where $F_{f r}$ friction force, $N$ is normal force.
The ratio of pressure force $L$ to friction force $D$ equals:

$$
\frac{L}{D}=\frac{N}{F_{f r}}
$$

Therefore:

$$
\mu=\frac{1}{\frac{L}{D}}=\frac{1}{10}=0.1
$$

Answer: 0.1

