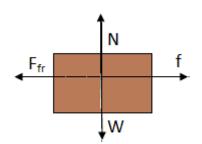
## Answer on Question #64571, Physics / Mechanics | Relativity

A block weighing 7 N requires a force of 2.7 N to push it along at constant velocity. What is the coefficient of friction for the surface?

Solution:



Write Newton's second law ma= f + W + N+ F<sub>fr</sub> ma =0 Ox: F<sub>fr</sub> = f Oy: N = W Friction force F<sub>fr</sub> =  $\mu$ N  $\mu$  W = f  $\mu$  = f / W  $\mu$  = 2.7 N / 7 N = 0.39 Answer: 0.39

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