

I need a equation for a problem in using a pulling force a mass a coefficient of static friction a coefficient of kinetic friction and solving for the frictional force

Answer 1

Answer: The minimum pulling force required to start it moving is equal to the static frictional force.

$$F = (\text{mass}) \times (\text{gravity}) \times (\text{coefficient of static friction}).$$

Once it's moving, the force required to keep it moving at a steady speed, without speeding up or slowing down, is the force of kinetic friction.

$$F = (\text{mass}) \times (\text{gravity}) \times (\text{coefficient of kinetic friction}).$$

In both equations, [(mass) x (gravity)] is just the object's 'weight'.

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