

# Spring Energy Problem

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

A 22 kg crate slides from rest down a ramp inclined at  $29^\circ$  to the horizontal onto a spring of force constant 890 N/m. The spring is compressed a distance of 0.30 m before the crate stops. Determine the total distance the crate slides along the ramp. Friction is negligible.

