## W6.05b

## Energy



1] A 10-kg box is released from rest and slides down a 800 cm tall incline and then compresses a spring (k = 50 N/m). What is the maximum compression of the spring ( $\Delta$ s) before the box is pushed away?

Note: all surfaces are frictionless **except** the crosshatched surface where d = 10 m and has a coefficient of friction of 0.10.

2] A 10-kg box moving at 10 m/s on top of a 800 cm tall incline slides down and then compresses a spring (k = 50 N/m). What is the maximum compression of the spring ( $\Delta$ s) before the box is pushed away?

Note: all surfaces are frictionless **except** the crosshatched surface where d = 10 m and has a coefficient of friction of 0.10.

## **KEY-W6.05b**

1] 5.29 m 2] 6.93 m