PHYSICS: WORKS & POWER

Solve the physics problems below!

Calculate the work done by a 47 N force pushing a pencil 0.26 m.

How much work is it to lift a 20. kg sack of potatoes vertically 6.5 m?

Calculate the work done by a 2.4 N force pushing a 400. g sandwich across a table 0.75 m wide

If a small motor does 520. J of work to move a toy car 260. m, what force does it exert?

A girl pushes her little brother on his sled with a force of 300, N for 750. m. How much work is this if the force of friction acting on the sled is

(a) 200. N, (b) 300. N?

If it takes 25 N to slide the box up the ramp, how much work will it take to slide the box up?

Instead of sliding, how much work will it take to lift the box to the top of the ramp?