
Calculating the Amount of Work Done

Your Tasks

Task 1

A gift pack was pushed with a force of 30 N through a distance of 12 m. How many joules of work was done?

Task 2

A tow truck does 3.2 kJ of work in pulling on a stalled car to move it 1.8 m horizontally in the direction of the force. What is the magnitude of the force?

Task 3

A student pushes against a mango tree with a force of magnitude 250 N. How much work does the student do on the tree?

Task 4

A nurse is holding a 3.0 kg newborn child at a height of 1.2 m off the floor and carries the new baby along a hospital corridor of 15 m. How much work was done by the nurse on the baby?

ANSWERS TO TASKS:

Work or No Work

Task 2

1. Yes
2. Yes
3. No
4. No
5. Yes
6. Yes

Situations 1, 2, 5, and 6 show that there is work done