Answer on Question 63039, Physics, Mechanics, Relativity

Question:

Wall-E does 750 J of work pushing a block of rubbish 15 m. Calculate the force he is pushing with.

Solution:

By the definition of the work done we have:

$$W = Fs$$
,

here, W is the work done by Wall-E, F is the force acting on a block of rubbish, s is the distance.

From this formula we can calculate the force acting on a block of rubbish:

$$F = \frac{W}{s} = \frac{750 \, J}{15 \, m} = 50 \, N.$$

Answer:

F = 50 N.

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