## 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:

$$
W=F s,
$$

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:

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

## Answer:

$$
F=50 \mathrm{~N} .
$$

