## Answer on Question \#37705 - Physics- Others

A work of 500 Joules is done when a force of 20 Newton is applied to a cart. Calculate the distance through which a cart moves and states its direction

## Solution:

$$
\text { Work }=\text { force } \cdot \text { distance } \Rightarrow \text { distance }=\frac{\text { Work }}{\text { force }}=\frac{500 \mathrm{~J}}{20 \mathrm{~N}}=25 \mathrm{~m}
$$

Answer: the distance through which a cart moves is equal to 25 meters in the direction of the force.

