

Answer on Question 65300, Physics, Other

Question:

A server pushes a 12 *kg* tray up at a constant speed. In doing so, he causes the tray to rise 1.5 *m*. How much work is done on the tray?

Solution:

By the definition of the work done we have:

$$W = Fh = mgh = 12 \text{ kg} \cdot 9.8 \frac{\text{m}}{\text{s}^2} \cdot 1.5 \text{ m} = 176.4 \text{ J}.$$

Answer:

$$W = 176.4 \text{ J}.$$

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