

Section 6.5 Worksheet:

Assigned problems: Exercises pp. 338-340, #1, 19, 21, 32 and 33

1. We often use them interchangeably, but in what fundamental way do the units of kilograms and pounds differ?

2. How does the technical meaning of work differ from your informal conception of work?

3. Give an example of a situation in which the technical definition and your intuition about work coincide, and an example of a situation in which they don't.

4. Who said "If I have seen further it is by standing on the shoulders of giants."

5. In the equation found on page 335,

$$W_i \approx F(x_i)\Delta x$$

why would I prefer to write

$$\Delta W_i \approx F(x_i)\Delta x$$

What would my justification be?