

Name _____
Period _____

Date _____
Number _____

Work

Directions: Determine how much work is done. REMEMBER: Work = force x distance

Calculate how much work is done in each of the following examples. Show all of your calculations and remember your unit! (joules)

1. A child uses 4N of force to pull a wagon a distance of 2m along a sidewalk.
2. A construction worker uses 30N of force to drag a toolbox a distance of 3m.
3. Michelle pushes her ice cream cart with a force of 10N for a distance of 8m.
4. Sarah lifts some of the *Number the Stars* books with a force of 20N for a distance of 2m.
5. Anthony drags the rest of the *Number the Stars* books with a force of 15N for a distance of 4m.

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Answer the following questions using complete sentences.

1) What is work?

2) How do you know when work is being done on an object?

3) What is the formula for work? _____

4) What is the unit for work? _____

5) How does a machine make work easier?

6) Why are machines not 100% efficient?
