

# Work



Definition:

\* Work =  $\Delta$  Energy

\* Work = \_\_\_\_\_ \* \_\_\_\_\_

- If an object \_\_\_\_\_, no \_\_\_\_\_ is done!

Unit of Work

F = measured in \_\_\_\_\_

d = measured in \_\_\_\_\_

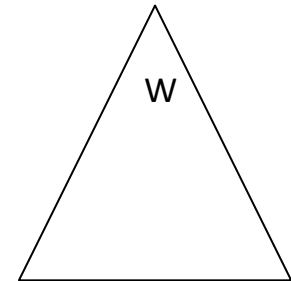
W = \_\_\_\_\_ \* \_\_\_\_\_ therefore, \_\_\_\_\_ \* \_\_\_\_\_ or \_\_\_\_\_

Sample Questions:

1. How much **work** is needed to lift an object that weighs 60 N to a height of 2 m?

F =

d =



2. How much work is done if the 100N box is **lifted** to a height of 3 meters?

F =

d =

3. Does he have to apply the same force to **slide** it up the ramp?

\*\* Use Work found in #2 and solve for F.

W =

d =

