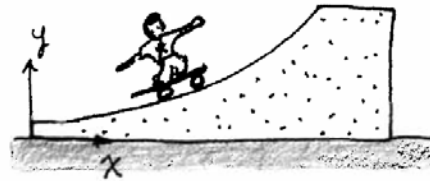


NOTES: Distributed loads

CONSIDER SANDBAGS

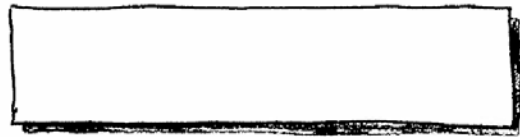
-OR-

A SKATE RAMP



IN BOTH CASES THE FORCE EXERTED ON THE SURFACE BELOW IS _____ of _____ ().

THESE ARE BOTH EXAMPLES of



LET'S DRAW THESE LOADS*:

(SANDBAGS)

(SKATE RAMP)



How would you replace a distributed load with a single force?

MAGNITUDE →

$|\vec{F}| =$ _____

→

$=$ _____

* NOTE THAT WE CAN NOT TREAT 'THINGS' SUBJECT TO DISTRIBUTED LOADS AS PARTICLES