



5. What is the potential energy of Sponge Bob Square Pants on the 10.m platform if he has a mass of 74.52kg ?
6. a. While walking through the barn you hear a creaking noise and notice that a thin rope is holding up a 13 kg bag of horse manure. This bag is 8.54m above the ground. How much potential energy does it contain?
- b. If this bag breaks off the rope and reaches a velocity of 5 m/s right as it hits you, how much kinetic energy does the bag of manure have?
7. Jay is standing on the last step of a ladder that is 3.65 meters off the ground to drill in a basketball hoop. He then climbs down to the last step on 2nd step on the ladder which is .61 meters off the ground. Jay has a mass of 115 kg. What is his potential energy on the last step, and his potential energy on the 2nd step?