

Name: \_\_\_\_\_

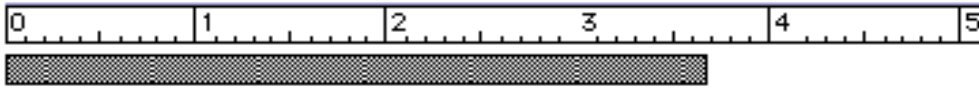
Homework from the book: Ch 2 Multiple Choice: 1, 2, 6, 8, 12, 13, 16, 17, 18, 19, 20, 22, 27, 28, 29, 44 Exercises: 1, 11, 17, 51

Ch 3: Multiple Choice: 2, 7, 9, 14, 20-22, 25, 32, 37, 38, 40 Exercises: 11, 41, 73

From the study guide: Ch 2 Multiple Choice 1, 3-8, 13-15 Solved Problems 2-2

Ch 3: Multiple Choice 1, 5, 8 Solved Problems 3-2

Take home quiz: (Show work for 5 & 6)



1) Which measurement is a correct measurement for the length shown above? \_\_\_\_\_

A) 4 cm B) 3.6 cm C) 3.7 cm D) 3.68 cm

2) A large (heavy) and a small (light) sphere are released at the same time from the same height above the ground. Which one of the following quantities associated with the spheres will be the same for both after 1 second, if frictional effects are ignored? \_\_\_\_\_

A) speed B) momentum C) potential energy D) kinetic energy

3) According to Newton's third law of motion, \_\_\_\_\_

A) there is no such thing as a single force acting on an object

B) or every force there is an equal and opposite reaction force, but each acts on a different object

C) action and reaction forces need not be equal, but must act in opposite directions

D) action and reaction forces must be equal, but need not act in opposite directions

4) The watt is a unit of ? \_\_\_\_\_

A) energy B) work C) momentum D) power

5) A stone dropped from the Dames Point Bridge and strikes the water 3.29 seconds later.

a) How high is the bridge above the water in meters?

b) How high is the bridge above the water in feet?

6) A 320.0 kg student decides to exercise by climbing a hill that rises vertically by 80.0 meters(m).

a) What is the work done by the student?

b) If the student makes the climb in 180 seconds, what is the power output of the student (in Watts)?