

Name: _____

By the Numbers

One of the most advanced robots in the world is ASIMO the Humanoid Robot. It was built using precise mathematical measurements. The conversion table below explains how to convert metric measurements into customary units of measure. Specifications for the robot are listed in metric units in the box next to the diagram. Use the data in the table and the box to answer the questions.

CONVERSION TABLE

1 kilogram (kg) = 2.2 pounds (lbs) (kg x 2.2 = lbs)

1 kilometer (km) = 0.6 miles (km x 0.6 = miles)

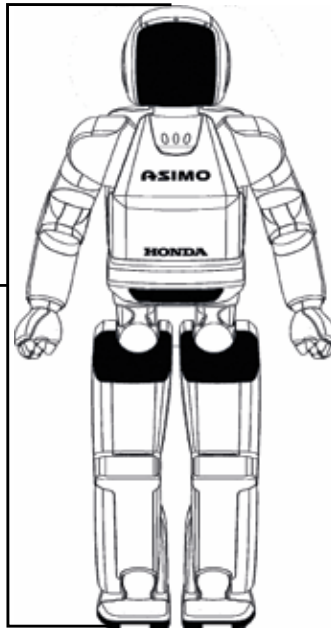
1 millimeter (mm) = 0.04 inches (mm x 0.04 = inches)

This diagram shows the front and side views of the latest ASIMO model.

SPECIFICATIONS (in Metric Units)

Height	1,200mm
Weight	52kg
Width (side view)	440mm
Max. Walking Speed	2.7km/hr
Max. Running Speed	6km/hr

1,200mm



440mm

ROBOT IMAGES COURTESY OF HONDA MOTOR CO.

1. How many miles can ASIMO run in one hour? _____
2. How many pounds does ASIMO weigh? _____
3. How wide is ASIMO, in inches? _____
4. How tall is ASIMO, in feet? _____