

This print-out should have 5 questions. Multiple-choice questions may continue on the next column or page – find all choices before answering.

Remember to always enter at least 6 digit answers.

---

**Acceleration Conversion****001 10.0 points**

Convert an acceleration of 3.1 mi/h/s to  $\text{m/s}^2$ .

Answer in units of  $\text{m/s}^2$ .

---

**Angle Conversion****002 10.0 points**

Convert  $22.7^\circ$  to radians.

Answer in units of rad.

---

**Area of a Lot****003 10.0 points**

Find the area of a rectangular building lot that is 110 ft by 40 ft.

Answer in units of  $\text{m}^2$ .

---

**Block Density****004 10.0 points**

A block of material has dimensions 3.7 cm by 6.8 cm by 5.7 cm. Its mass is 629 g.

What is the density?

Answer in units of  $\text{g/cm}^3$ .

---

**Circular Copper Plate****005 10.0 points**

A flat circular plate of copper has a radius of 0.216 m and a mass of 95.4 kg.

What is the thickness of the plate?

Answer in units of m.