

Name: _____

Period: ____

Conversions

Length

1 inch = 2.54 centimeters

1 mile = 1.61 kilometers

Mass

1 kilogram = 2.24 pounds

1 ounce = 28.4 grams

Volume

1 gallon = 4.55 Litres

1 millilitre = 1 centimeter cubed

Area

1 hectare = 10000 meters squared

= 2.47 acres

- (1) A gas tank requires 50 Litres to fill; what is the volume in gallons?
- (2) A bag holds 5 pounds of sugar; what is the mass in kilograms? in grams? in ounces?
- (3) The distance from the earth to the sun (one astronomical unit) is 1.50×10^8 km; what is this distance in miles?
- (4) A corn field measures 2000 m by 1500 m; what is the area in meters squared? In hectares? In acres?
- (5) A car is travelling at 90 miles per hour; what is the speed in kilometers per hour? In meters per second?
- (6) A sheet of paper measures 8.5 inches by 11 inches; what is the area in inches squared? In centimeters squared?
- (7) A drink container holds 500 mL; what is the volume in centimeters cubed? In meters cubed?
- (8) A concert ticket costs \$100 (US dollars); what is the cost in Canadian dollars (1 US dollar = \$1.29 CN dollar)? What is the cost in European dollars (1 US dollar = \$0.813 EU dollars)?
- (9) The speed of light is 3.0×10^8 meters per second; what is the speed in miles per hour?

Answers:

- (1) 10.99 gallons
- (2) 2.23 kg, 2230 g, 18.5 oz
- (3) 9.32×10^7 miles
- (4) 3.0×10^6 m², 300 hectares, 741 acres
- (5) 14.5 km/h, 40.3 m/s
- (6) 93.5 in², 603.2 cm²
- (7) 500 cm³, 0.0005 m³
- (8) \$129 CND, \$81.30 euro
- (9) 6.71×10^8 miles/h