

- 1) Several of the bolts used by a mechanic had a length of 12 centimeters. What is the length, in millimeters, of each bolt? _____
- 2) A stick welder comes with attached 1.8 meter input power cable. What is the length of the power cable in centimeters? _____
- 3) The same stick welder weighs 45.8 kg. How many grams does it weigh? _____
- 4) How many pounds does the stick welder weigh? (Show your work on this problem). _____

- 5) What is the length, in feet, of the 1.8 meter power cable. (Show your work on this problem).

- 6) A truck is travelling at 65 miles per hour. What is the truck's speed, in feet per second? (Show your work on this problem). _____

- 7) **Doubling Time Growth Model** $A = A_0 2^{\frac{t}{d}}$

A = Population at time t , A_0 is Population at time 0, d = Doubling time

A tech school currently has a student population of about 148 students, but is growing. It is estimated that the number of students is doubling at a rate of every 12 years.

How many students will be attending the tech school in 20 years?