

REVIEW

A rectangular parcel of land has the dimensions of 14500 m long and 2000 m wide.

- 1. Convert each of these values into scientific notation.
- 2. How many significant digits are each of these values measured to?
- 3. Without using a calculator, calculate the area of the land. Round your answer correctly.

BASIC UNIT ANALYSIS In the far away country of Yrtsimehc, the monetary currency is based on "izzles" rather than "dollars". The following equivalencies are true in this currency: frizzle = 8 crizzles drizzles = 0.5 sizzles crizzles = 10 drizzles If you have <u>75 frizzles in the bank, how many sizzles is this equivalent to?</u>









EXAMPLE #3 Visible light, as well as ultraviolet, infrared, X-ray, and other adiation, is characterized by what is called wavelength. The wavelength of certain infrared light is 30 micrometers. How many nanometers is this?



EXAMPLE #5

Ethanol, the alcohol found in beer, wine, and spirits, has a density of 0.789 g/mL.

What is this density in mg/kL?