Do the following Conversions

1. My daughter’s best swimming event is the 50 yd backstroke. How many centimeters is 50 yds?

2. My daughter’s best time for the 50 yd backstroke is 34.7 sec. How many minutes is this equal to?

3. What is her speed in (a) miles per hour? (b) centimeters per second?

4. Every 3 years the Earth adds about 280 million people (roughly the number of people in the U.S.). How many people are added (a) every day? (b) every second?

5. If the Earth has about $1.31 \times 10^{14}$ $m^2$ of dry land, (a) how many hectares is this? (b) how many acres is this? (c) how many square miles is this? [1 ha = 10,000 $m^2$; 1 ha = 2.471 acres; 640 acres = 1 mi$^2$]

6. As of 1997, the amount of arable land on the Earth was $1.38 \times 10^9$ ha and the amount of irrigated land was $2.67 \times 10^8$ ha. What is the percentage of (a) arable and (b) irrigated land on the Earth?