

**Seven Summits** The map shows the height of the highest mountain on each of Earth's seven continents. Climbing all seven mountains, also known as the Seven Summits, is considered a challenge in mountaineering. In Exercises 15–20, use the information on the map. (See Examples 5 and 6.)



- Determine the height of Mount McKinley in feet.
- Order the heights of the Seven Summits from highest to lowest.
- You are climbing Mount Everest. After 1 hour, you have climbed 183 meters. Find your rate of ascent in feet per minute.
- The original Seven Summits included Mount Kosciuszko in mainland Australia instead of Mount Carstensz. Mount Kosciuszko is about 2228 meters high. Is it higher or lower than Mount Carstensz? Explain.
- At the summit of Mount Everest, water boils at  $69^{\circ}\text{C}$ .
  - Convert this temperature to degrees Fahrenheit.
  - Could you boil a potato at the summit until it is cooked? Explain.
- For every 1000 feet of elevation, the air temperature drops about  $6.5^{\circ}\text{C}$ . Assume the temperature at the foot of Mount Kilimanjaro is  $23^{\circ}\text{C}$ . Estimate the temperature at the summit in degrees Fahrenheit.



The Seven Summits on the map are also known as the Messner List, named after mountaineer Reinhold Messner.