Independent Practice 2.3 Multiplying in Scientific Notation

Complete.

 An E. coli bacterium has a surface that measures about 4 · 10⁻³ millimeter in length and 2.3 · 10⁻³ millimeter in width. Find the approximate surface area of an E. coli bacterium.

Approximate surface area of E. coli bacterium

Evaluate each expression. Write your answer in scientific notation and round the coefficient to the nearest tenth.

2. $5.8 \cdot 10^5 \cdot 1.5 \cdot 10^2$ **3.** $8.25 \cdot 10^{-6} \cdot 7.8 \cdot 10^8$

Solve. Write your answer in scientific notation and round the coefficient to the nearest tenth.

4. The dimensions of a rectangular-shaped sandpit measures about $2.75 \cdot 10^2$ centimeters long by $9 \cdot 10^2$ centimeters wide. Find the approximate area of the sandpit.

5. A square foundation for a park measures $2.3 \cdot 10^2$ yards in length. Find the approximate area of the foundation.