**Simplify each expression**

**1.**  + 10 **2.** 30 − **3. 4.**  **5.** 3

**Square roots are commonly used in different professions. Here are some examples:**

***Home decorating:*** A remnant of carpet in the shape of a square is advertised as 16 square yards. That will cover an area that measures 4 yards by 4 yards.

***Law enforcement:*** In order to find the speed of a car after a collision, an investigator can measure the length of the skid marks (L) and apply the formula: speed = 2

***Computer programming:*** Square root and absolute value functions are often used in computer programming to ensure a positive number is used for calculations.

**Solve the following problems involving square roots:**

**1.** What is the length of a square tablecloth that has an area of 3600 square centimeters?

**2.** A square chessboard has an area of 144 square inches. How long is each side of the board?

**3.** Your bedroom is a perfect square. If you had to order 225 square feet of carpet to cover the floor, how long is each side of your bedroom?