

3-2**Practice: Word Problems*****Estimating Square Roots***

<p>1. GEOMETRY If the area of a square is 29 square inches, estimate the length of each side of the square to the nearest whole number.</p>	<p>2. DECORATING Miki has an square rug in her living room that has an area of 19 square yards. Estimate the length of a side of the rug to the nearest whole number.</p>
<p>3. GARDENING Ruby is planning to put a square garden with an area of 200 square feet in her back yard. Estimate the length of each side of the garden to the nearest whole number.</p>	<p>4. ALGEBRA Estimate the solution of $c^2 = 40$ to the nearest integer.</p>
<p>5. ALGEBRA Estimate the solution of $x^2 = 138.2$ to the nearest integer.</p>	<p>6. ARITHMETIC The geometric mean of two numbers a and b can be found by evaluating $\sqrt{a \cdot b}$. Estimate the geometric mean of 5 and 10 to the nearest whole number.</p>
<p>7. GEOMETRY The radius r of a certain circle is given by $r = \sqrt{71}$. Estimate the radius of the circle to the nearest foot.</p>	<p>8. GEOMETRY In a triangle whose base and height are equal, the base b is given by the formula $b = \sqrt{2A}$, where A is the area of the triangle. Estimate to the nearest whole number the base of this triangle if the area is 17 square meters.</p>