

# Activity 1 Assessment

## Estimating and Calculating Square Roots

Estimating and Calculating Square Roots			
<p>Identifies a perfect square</p> <p>81 is a perfect square because it can be written as the product of two equal factors:  <math>81 = 9 \times 9</math>  <math>81 = -9 \times -9</math></p>	<p>Identifies the principal square root of a perfect square</p> <p><math>\sqrt{144} = 12</math> because <math>144 = 12 \times 12</math></p>	<p>Estimates the principal square root of a non-perfect square</p> <p>For <math>\sqrt{55}</math>, identify:  <math>\sqrt{49} = 7</math> and <math>\sqrt{64} = 8</math></p> <p>55 is closer to 49 than 64, so estimate <math>\sqrt{55}</math> as about 7.4.</p>	<p>Uses technology to help estimate the principal square root of a non-perfect square</p> <p>Use a calculator:  <math>\sqrt{188} = 13.711\ 309\dots</math></p> <p>Round to the nearest hundredth: 13.71            Round to the nearest tenth: 13.7</p>
Observations/Documentation			