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| **Estimating and Calculating Square Roots** |
| Identifies a perfect square81 is a perfect square because it can be written as the product of two equal factors:81 = 9 × 981 = −9 × −9 | Identifies the principal square root of a perfect square$\sqrt{144}$ = 12 because 144 = 12 × 12 | Estimates the principal square root of a non-perfect square For $\sqrt{55}$, identify: $\sqrt{49}$ = 7 and $\sqrt{64}$ = 855 is closer to 49 than 64, so estimate √55 as about 7.4. | Uses technology to help estimate the principal square root of a non-perfect squareUse a calculator: $\sqrt{188}$ = 13.711 309…Round to the nearest hundredth: 13.71Round to the nearest tenth: 13.7 |
| **Observations/Documentation** |
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