## Estimate Square Roots

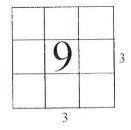
Big Ideas: \*Square roots are the "sides" of a square of a given number.

\*Numbers that are not perfect squares need to be estimated.

## Steps:

- 1. Find the two perfect square numbers the unknown is between.
- 2. Estimate the square root to the nearest tenths place.

\*\*Continue to estimate until you have one estimate above and one below and find the closest of the two.



Example:	$\sqrt{9} \sqrt{13} \sqrt{16}$ $3 + \chi_{3.5} + 4$	3.6 × 3.6 21 \$6 108 X 12.9 6	$ \begin{array}{c} 2 + 3.7 \\ 3.7 \\ 2.59 \\ 111 \times \\ 13.69 \end{array} $	$\sqrt{13} \approx 3.6$
		Low .04	High . 69	