

# Estimate Square Roots with Operations

Big Idea: Use estimates of square roots in operations

Examples:

$$\begin{array}{l} \sqrt{1} = 1 \\ \sqrt{4} = 2 \\ \sqrt{9} = 3 \\ \sqrt{16} = 4 \end{array}$$

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$$\begin{array}{r} 2.2 \\ 44 \overline{) 4.84} \\ \underline{44} \phantom{00} \\ 44 \phantom{00} \\ \underline{44} \phantom{00} \\ 0 \end{array}$$

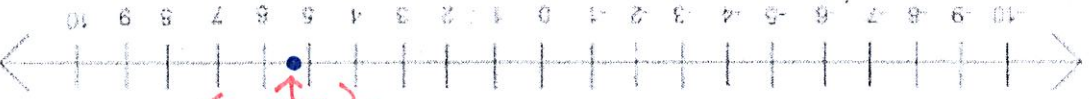
$$\begin{array}{r} 2.6 \\ 52 \overline{) 6.76} \\ \underline{104} \phantom{00} \\ 156 \phantom{00} \\ \underline{156} \phantom{00} \\ 0 \end{array}$$

$$\begin{array}{l} \sqrt{5-6} \\ \approx -3.8 \end{array}$$

$$\begin{array}{l} 2(2.6) \\ \approx 5.2 \end{array}$$

$$\begin{array}{r} 2.3 \\ 46 \overline{) 5.29} \\ \underline{46} \phantom{00} \\ 69 \phantom{00} \\ \underline{69} \phantom{00} \\ 0 \end{array}$$

$$\begin{array}{r} 2.7 \\ 54 \overline{) 7.29} \\ \underline{108} \phantom{00} \\ 189 \phantom{00} \\ \underline{189} \phantom{00} \\ 0 \end{array}$$



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