How to Evaluate Root 32

\[ \sqrt{32} \]

Think of two divisors (or factors) of 32 where one is a perfect root, if possible. We’ll go with this (there are a couple ways to evaluate this):

\[ \sqrt{4 \times 8} \quad \text{This is the same as} \ldots \]

\[ \sqrt{4} \times \sqrt{8} \quad \text{We can evaluate each separately} \ldots \]

\[ 2 \times 2\sqrt{2} \quad \text{Next, the twos outside of the radical get multiplied together} \ldots \]

\[ 4\sqrt{2} \]