A perfect square is

\[
\begin{array}{cccccccc}
1^2 = & 2^2 = & 3^2 = & 4^2 = & 5^2 = & 6^2 = & 7^2 = & 8^2 = \\
9^2 = & 10^2 = & 11^2 = & 12^2 = & 13^2 = & 14^2 = & 15^2 = & 16^2 = \\
\end{array}
\]

A square root is

\[
\begin{array}{ccc}
\sqrt{196} = & \sqrt{256} = & \sqrt{169} = \\
\end{array}
\]

For an integer that is not a perfect square you can estimate a square root.

Example 1: What are the two whole numbers that are closest to \( \sqrt{8} \)?

To solve this, you just need to find the two perfect squares that are directly above and below the number. (Use a number line if you need to)

Example 2: What are the two whole numbers that are closest to \( \sqrt{135} \)?

Example 3: What are the two whole numbers that are closest to \( \sqrt{200} \)?

Example 4: What are the two whole numbers that are closest to \( \sqrt{192} \)?

Example 5: What are the two whole numbers that are closest to \( \sqrt{37} \)?
1. What are the two whole numbers closest to $\sqrt{162}$?

2. What are the two whole numbers closest to $\sqrt{95}$?

3. What are the two whole numbers closest to $\sqrt{74}$?

4. What are the two whole numbers closest to $\sqrt{28}$?

5. What are the two whole numbers closest to $\sqrt{60}$?

6. What are the two whole numbers closest to $\sqrt{19}$?

**MIXED REVIEW (USE TOOL KIT)**

7. A video game is on sale for 25% off. The original price is $42. What is the Discount? What is the sale price?

8. Solve for $x$: $3x - 18 = 42$

9. Solve for $m$: $x - \frac{1}{3} = \frac{2}{7}$

10. Find the distance and airplane travels if it goes 400 miles per hour for 3 hours.

11. Simplify $6^2 \times 6^3 = $

12. Simplify $8^{12} \div 8^7 = $

13. John invested $400 in a savings account. How much interest will he earn in 5 years if the interest rate is 7%?

14. How do you find the slope of a line on a graph?

15. What is the Pythagorean Theorem used for? What is the formula?