## SQUARE VS. SQUARE ROOTS



What is the opposite of a square?

## SOLVING WITH SQUARE ROOTS

1. Isolate the square. "x"
2. Take the squaroot "n


EXAMPLES:
$\sqrt{x^{2}}=\sqrt{4}$
$x= \pm 2$

$5 x^{2}-1=124$
+1

"DON'T FORGET TO USE $\pm$ IN ANSWERS"


## SIMPLIFYING SQUARE ROOTS

## PERFECT SQUARES

$$
\begin{aligned}
& 1^{2}=1 \\
& 2^{2}=4 \\
& 3^{2}=9 \\
& 4^{2}=16 \\
& 5^{2}=25 \\
& 6^{2}=36 \\
& 7^{2}=49 \\
& 8^{2}=44 \\
& 9^{2}=81 \\
& 10^{2}=100 \\
& 11^{2}=121 \\
& 12^{2}=144
\end{aligned}
$$


2. Rewire the hoot
3. $\frac{\text { Simplify d Leave }}{\text { Behind }}$


EXAMPLES:
$\sqrt{x^{2}}=\sqrt{8}$
$x= \pm \sqrt{28}$
$x= \pm \sqrt{4 \cdot 7}$
$x= \pm 2 \sqrt{7}$
$3 x^{2}+1=31$
-1

"DON'T FORGET TO USE $\pm$ \& SIMPLIFY ANSWERS"

