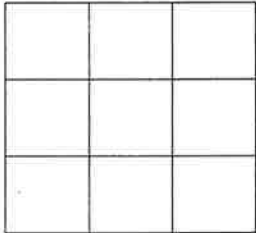


## Lesson 8-5 Squares and Square Roots

Term	Definition	Example	Symbol
Perfect Square	The answer you get when you multiply a number by itself.	$3^2 = 3 \times 3 = 9$ 	$n^2$
Square Root	The opposite of squaring a number.	$\sqrt{9} = 3$ <i>Think: What number times itself equals 9?</i>	$\sqrt{n}$

**You Try! Find the square.**

1.  $2^2 = 4$

2.  $10^2 = 100$

3.  $7^2 = 49$

4.  $13^2 = 169$

**You Try! Find the square root.**

5.  $\sqrt{16}$      $n^2 = 16$   
           ↓  
           4     $\sqrt{16} = \boxed{4}$

6.  $\sqrt{121} = \boxed{11}$   
 $(11^2) = 121 \checkmark$

7.  $\sqrt{81} = \boxed{9}$   
 $9 \times 9 = 81 \checkmark$

8.  $\sqrt{25} = \boxed{5}$   
 $5 \times 5 = 25 \checkmark$

$\sqrt{100} \rightarrow$  Think: What number squared = 100?  
 $n^2 = 100$   
           ↓  
 $10^2 = 100 \leftarrow$  double check is  $10^2 = 100$ ? Yes!

So,  $\sqrt{100} = 10$