THE SQUARE OF A NUMBER IS WHEN YOU MULTIPLY A NUMBER BY ITSELF.


THE 2 (SQUARE) TELLS US TO FIND THE PRODUCT OF THE NUMBER AND ITSELF.

$$
11^{2}=11 \times 11=121
$$

Find the square of each number.

1. $5^{2} 25$
2. $12^{2}$
144
3. $10^{2}$
100
4. $16^{2}$
256
5. $9^{2} \quad 81$
6. $25^{2}$
625
7. $37^{2}$
1,369
8. $30^{2}$
900

## Solve the word problems.

Tom's yard is in the shape of a perfect square. If one side of the yard is 6 meters long, what is the area of the yard? 36 square meters

Billy is covering his square floor with large pieces of wood. The wood pieces are also square
10. in shape with a length of 2 feet. If one side of the floor is 16 feet long, how many pieces of wood will Billy need to cover his floor? 64 pieces of wood

THE SQUARE ROOT OF A NUMBER IS THE SQUARE YOU MULTIPLIED TO GET THE NUMBER. A RADICAL SIGN, $\sqrt{ }$, IS USED TO SHOW THE POSITIVE SQUARE ROOT OF A NUMBER.

$$
\begin{array}{l|l|l}
\sqrt{9} & \sqrt{25} & \sqrt{81} \\
3 \times 3=9, \text { so } \sqrt{9}=3 & 5 \times 5=25, \text { so } \sqrt{25}=5 & 9 \times 9=81, \text { so } \sqrt{81}=9
\end{array}
$$

Find the positive square root of each number.
11. $\sqrt{64}$
8
12. $\sqrt{169}$
13
13. $\sqrt{400}$
20
14. $\sqrt{49} 7$
15. $\sqrt{225}$
15
16. $\sqrt{484}$
22
17. $\sqrt{16} 4$
18. $\sqrt{361} 19$

## Solve the word problem.

19. 

Hank's square yard has an area of 100 square meters. He wants to place a new fence around the outside of the entire yard. How many meters of fence will he need? 40 meters

