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

$$3^2 = 3 \times 3 = 9$$
 $4^2 = 4 \times 4 = 16$

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.

з.
$$10^2$$
 100

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 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.

$$\sqrt{9}$$
 $\sqrt{25}$ $\sqrt{81}$ $3 \times 3 = 9$, so $\sqrt{9} = 3$ $5 \times 5 = 25$, so $\sqrt{25} = 5$ $9 \times 9 = 81$, so $\sqrt{81} = 9$

Find the positive square root of each number.

11.
$$\sqrt{64}$$

12.
$$\sqrt{169}$$

$$\sqrt{49}$$
 7

15.
$$\sqrt{225}$$

17.
$$\sqrt{16}$$

Solve the word problem.

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