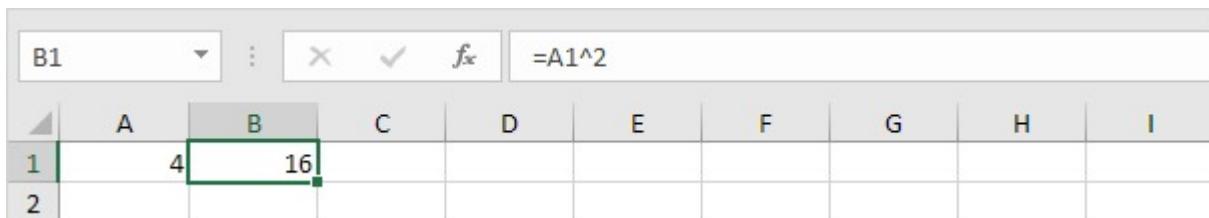


Square Root in Excel

The square root of a number is a value that, when multiplied by itself, gives the number.

The SQRT function in Excel returns the square root of a number.

1. First, to square a number, multiply the number by itself. For example, $4 * 4 = 16$ or $4^2 = 16$.



Excel Sheet View								
	A	B	C	D	E	F	G	H
1	4	16						
2								

Note: to insert a caret ^ symbol, press SHIFT + 6.

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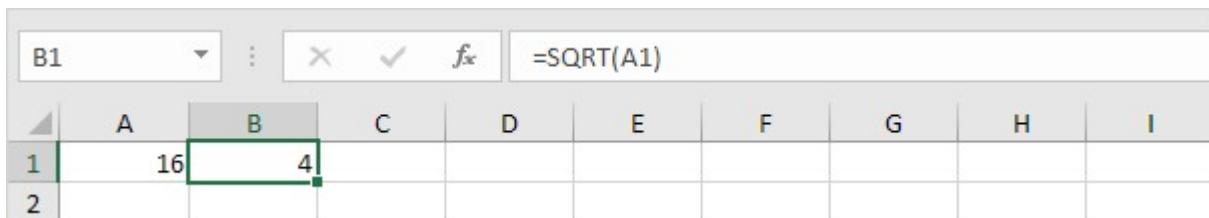
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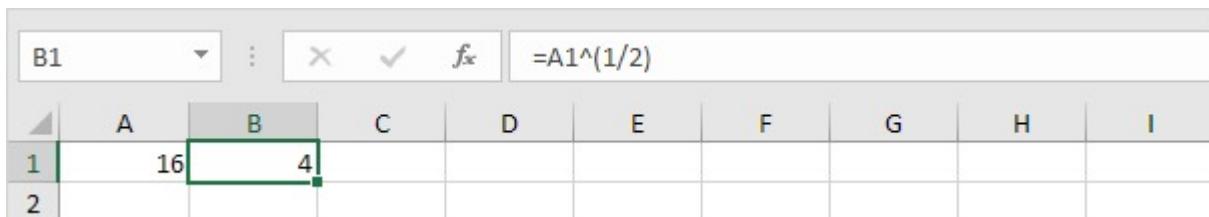
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2. The square root of 16 is 4.



Excel Sheet View								
	A	B	C	D	E	F	G	H
1	16	4						
2								

3. Instead of using the SQRT function, you could also use an exponent of 1/2. Don't forget the parentheses.



Excel Sheet View								
	A	B	C	D	E	F	G	H
1	16	4						
2								

4. If a number is negative, the SQRT function returns the #NUM! error.

B1	X	✓	f _x	=SQRT(A1)				
A	B	C	D	E	F	G	H	I
1	-16	#NUM!	!					
2								

5. You can use the [ABS function](#) to remove the minus sign (-) from a negative number.

B1	X	✓	f _x	=SQRT(ABS(A1))				
A	B	C	D	E	F	G	H	I
1	-16	4						
2								

Excel has no built-in function to calculate the nth root of a number. To calculate the nth root of a number, simply raise that number to the power of 1/n.

6. For example, $5 * 5 * 5$ or 5^3 is 5 raised to the third power.

B1	X	✓	f _x	=A1^3				
A	B	C	D	E	F	G	H	I
1	5	125						
2								

7. The cube root of 125 is 5.

B1	X	✓	f _x	=A1^(1/3)				
A	B	C	D	E	F	G	H	I
1	125	5						
2								

8. For example, $2 * 2 * 2 * 2 * 2 * 2$ or 2^6 is 2 raised to the sixth power.

B1	X	✓	f _x	=A1^6				
A	B	C	D	E	F	G	H	I
1	2	64						
2								

9. The sixth root of 64 is 2.

B1	X	✓	f _x	=A1^(1/6)				
A	B	C	D	E	F	G	H	I
1	64	2						
2								

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