

For Creative Minds

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Even numbers always have a match or a pair!

0

1



2



3



4



5



6



7



8



9



Which numbers have only pairs and are even?

Do you see a pattern?

Is zero odd or even? Why?

If you count by twos, are the numbers even or odd? Why?



Square Numbers: Odd or Even?

Instead of counting by two, now count two by two. Start at the "x" and count two blocks over and two blocks down. How many blocks did you count? Is that an odd or even number? What shape do the blocks make?

Now, start at the "x" and count three blocks over and three blocks down. How many blocks did you count this time? Is that an odd or even number? What shape do the blocks make?

Continue going over and down and count how many blocks there are each time. Are the numbers odd or even? Do you see a pattern? What shape do the colored blocks make? Do you think the pattern will continue as the numbers get higher and higher? Why or why not?

X	
	2

$$2 \times 2 = \underline{\quad} \text{ blocks}$$

X		
		3

$$3 \times 3 = \underline{\quad} \text{ blocks}$$

X			
			4

$$4 \times 4 = \underline{\quad} \text{ blocks}$$

X				
				5

$$5 \times 5 = \underline{\quad} \text{ blocks}$$

The number of blocks that were counted each time are called "square numbers."
How do you think they got that name?

