

Math 9
Guided notes 1a.2

When you square a number, you _____

Number	Square	Number	Square
0			
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
8		19	
10		20	

A square root is the INVERSE OPERATION of a square – it does the “opposite”, or undoes the operation. $\sqrt{\quad} = \sqrt{\quad^2} = \sqrt{\quad * \quad} = \sqrt{\quad} * \sqrt{\quad} =$

The square root of 100 is _____ or _____, often written as _____.

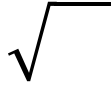
Remember there are TWO possible square roots to every number except _____.

When we find the square root, we usually only give the principal square root – the _____ number. E.g., $\sqrt{36} =$

When solving an equation, we need to consider both possible answers. E.g., $x^2 = 49$

$x =$

The parts of a square root:



Perfect squares are: _____

They help us estimate square roots.

The square root of 20 is between _____ and _____ .

Using a calculator, we can get a more precise answer: _____

Remember, unless it's a perfect square, the answer your calculator gives is probably an APPROXIMATION, not an EXACT answer – many square roots are _____ .

Examples: