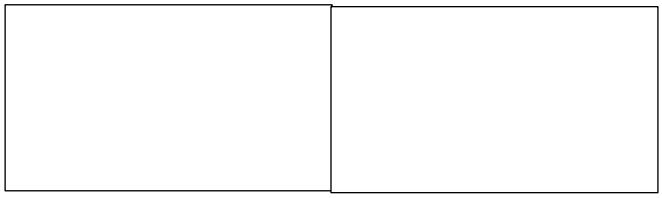
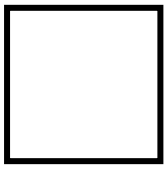
Math 9 Section 1.2 – Square Roots

Homework: Section 1.2 on Pg. 10; 1-2all, 3 Left, 4ab, 6, 7, 8, 10, 12, 13 – Answers on Pg. 361
(Use calculator for questions with decimals)

When we went over the grade 8 exam, I told you that:



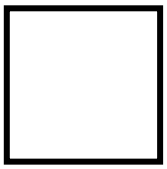
In other words, _____ and _____ _____ are opposites!
(Like adding/subtracting or multiplying/dividing)
… But why?



Area = A =

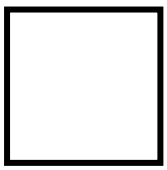
Perimeter = A =

For example:



Area = A =

What if we start with the area?



Area = A =

In Summary: | #1. | AND | #2. |

#1. → #2.	#2. → #1.

This shows that, _____ and _____ _____ are opposites!

Perfect Squares – Any _____ number squared!

$0^2 = \_\_\_$	$\sqrt{\_\_\_} = 0$
$1^2 = \_\_\_$	$\sqrt{\_\_\_} = 1$
$2^2 = \_\_\_$	$\sqrt{\_\_\_} = 2$
$3^2 = \_\_\_$	$\sqrt{\_\_\_} = 3$
$4^2 = \_\_\_$	$\sqrt{\_\_\_} = 4$
$5^2 = \_\_\_$	$\sqrt{\_\_\_} = 5$
$6^2 = \_\_\_$	$\sqrt{\_\_\_} = 6$
$7^2 = \_\_\_$	$\sqrt{\_\_\_} = 7$
$8^2 = \_\_\_$	$\sqrt{\_\_\_} = 8$
$9^2 = \_\_\_$	$\sqrt{\_\_\_} = 9$
$10^2 = \_\_\_$	$\sqrt{\_\_\_} = 10$

Let's try some problems with roots…

$\sqrt{\frac{49}{121}}$ $\sqrt{16+9}$ $\sqrt{16}+\sqrt{9}$

$\sqrt{-100}$ $-\sqrt{100}$ $\sqrt{0.81}$

What happens if we take the square root of a number that isn't a perfect square?

$\sqrt{12}$ $\sqrt{78}$ $-\sqrt{97}$