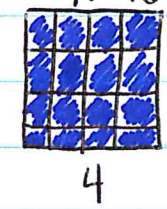
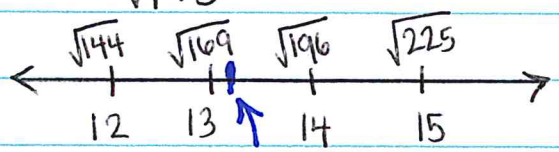
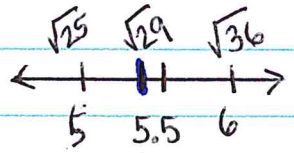
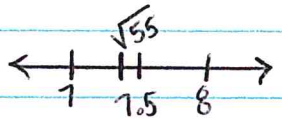
Approximating Irrational Numbers

MAIN IDEAS	NOTES
Square Roots	$\sqrt{a}$ ← square root symbol (radical) finding the square root of a number is the opposite of squaring a number. ex: $\sqrt{100} = 10$ b/c $10^2 = 100$
Square Roots of Perfect Squares	Whole numbers, rational numbers ex: A = 16  4 4 $\sqrt{16} = 4$
Square roots of non-perfect Squares	irrational numbers can be approximated by determining what two perfect squares it's between ex: $\sqrt{2} = 1.4142...$

MAIN IDEAS	NOTES
Approximating Irrational Numbers	$\sqrt{175}$  $\sqrt{175}$ is between 13 and 14 $\sqrt{18}$ is between 4 and 5 $\sqrt{72}$ is between 8 and 9 $\sqrt{29} \approx 5.4$  $\sqrt{55} \approx 7.4$  $\sqrt{200} \approx 14.1$