

Standard	Descriptor	SWBAT...
8.NS.A.1	Know that numbers that are not rational are called irrational.	...tell the difference between a rational and irrational number.

**Select the correct response.**

<p>The first 5 perfect square numbers are:</p> <p><input type="radio"/> 1, 4, 9, 16 and 25</p> <p><input type="radio"/> 1,2, 3, 4, and 5</p> <p><input type="radio"/> 2,4, 6, 8, 10</p> <p><input type="radio"/> -1, -2, -3, -4, -5,</p>	<p>Which number is rational?</p> <p><input type="radio"/> Pi</p> <p><input type="radio"/> Square root of 8</p> <p><input type="radio"/> 0.01022033304444.....</p> <p><input type="radio"/> -80000</p>
<p>Rational numbers include everything except</p> <p><input type="radio"/> decimals</p> <p><input type="radio"/> non-repeating, never ending decimals</p> <p><input type="radio"/> fractions</p> <p><input type="radio"/> integers</p>	<p>Which of the following is a rational number?</p> <p><input type="radio"/> Square root of 25 minus the square root of 3</p> <p><input type="radio"/> Square root of 7</p> <p><input type="radio"/> <math>\frac{1}{3} + \frac{1}{3}</math></p> <p><input type="radio"/> Pi</p>

Describe how you know when you are looking at an irrational number.

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Standard	Descriptor	SWBAT...
8.NS.A.2	Use rational approximations of irrational numbers to compare the size of irrational numbers locating them approximately on a number line diagram.	...identify locations of irrational numbers on a number line.

### Cheat Sheet

Square Root	1	2	3	4	5	6	7	8	9	10
Perfect Square										

### Part I - Estimating Radicals

Without using a calculator, determine which two integers each of the following radicals below falls between.

1)  $\sqrt{50}$  is between \_\_\_\_\_ and \_\_\_\_\_.

2)  $\sqrt{18}$  is between \_\_\_\_\_ and \_\_\_\_\_.

3)  $\sqrt{75}$  is between \_\_\_\_\_ and \_\_\_\_\_.

### Part II - Number Line as a Class

Use your new estimation skills to place each of the following radicals onto the number line below.

1)  $\sqrt{17}$       2)  $\sqrt{7}$       3)  $\sqrt{28}$       4)  $-\sqrt{2}$       5)  $-\sqrt{18}$

