

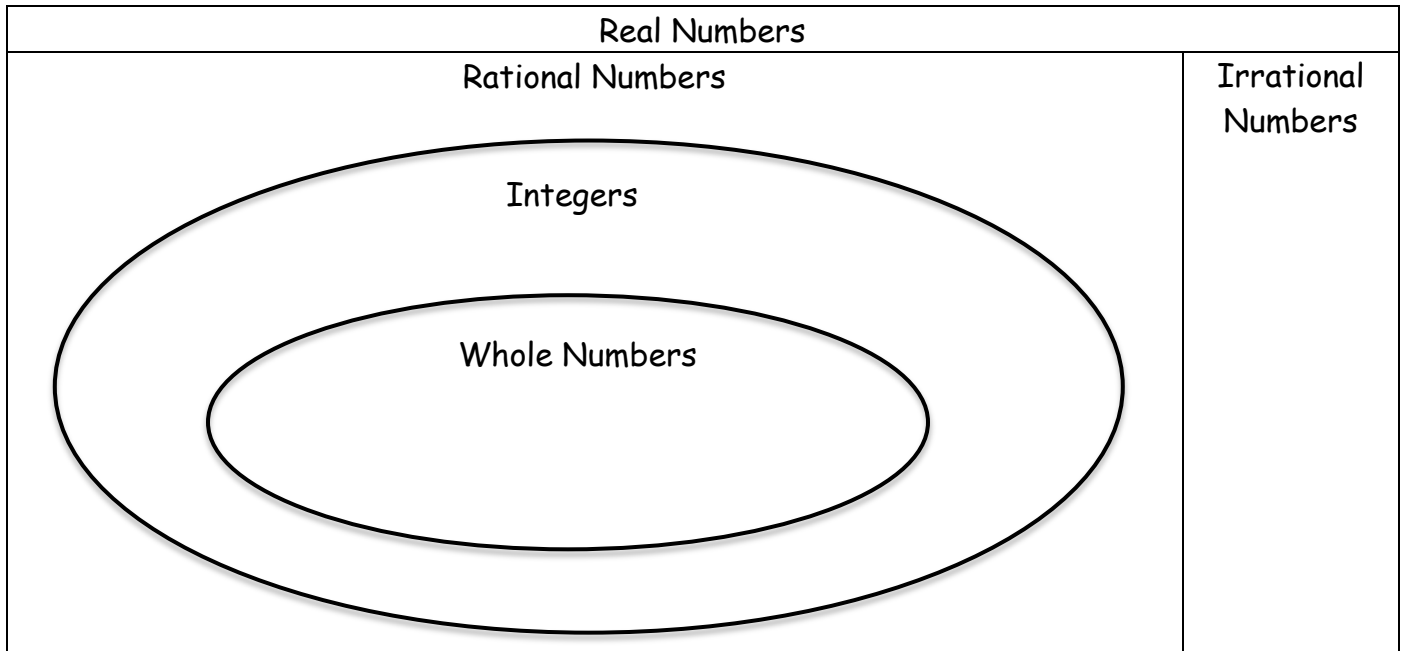
Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Determining Rational/Irrational Homework

A. Place the following numbers in the Venn diagram:

$\sqrt{9}$	257	16.6	$\sqrt{16}$	$5.\bar{3}$	$7.\bar{54}$	$\sqrt{\frac{3}{8}}$	$-\sqrt{100}$	$\sqrt{24}$	$\frac{\pi}{2}$	$-\frac{18}{6}$	$\frac{7}{8}$	$\sqrt{50}$	$8\frac{1}{2}$	$-2\sqrt{4}$	$\sqrt{\frac{1}{16}}$
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B. Compare the following with  $>$ ,  $<$ ,  $=$

1.  $\sqrt{3} + 5$    $3 + \sqrt{5}$

2.  $\sqrt{2} + 4$    $2 + \sqrt{4}$

3.  $-2\sqrt{9}$    $-\frac{18}{3}$

4.  $2(\sqrt{16} + 5)$    $2\sqrt{16} + 5$

C. Four students have found the perimeter of a forest using different methods. Their results are given in the table. Order their calculations from greatest to least.

Forest Perimeter (km)			
Sydney	Gracie	Parker	Caden
$\sqrt{17} + 2$	2.5	$\frac{12}{5}$	$1 + \frac{\pi}{2}$