

Name:

Date:

Period:

Classify the following as Rational or Irrational. If Rational, list ALL the categories it falls into (counting, whole, integer).

1.	$3\frac{2}{3}$	2.	$\frac{3}{4}$	3.	$-\frac{1}{2}$	4.	$\frac{21}{9}$
5.	0.24	6.	-17.8	7.	$\sqrt{2}$	8.	15.123
9.	$0.\overline{2}$	10.	π	11.	$0.\overline{27}$	12.	$4.15\overline{7}$
13.	0	14.	-2	15.	15	16.	$\frac{12}{12}$
17.	$\sqrt{16}$	18.	$-\frac{3}{8}$	19.	0.123456324...	20.	$\sqrt{\frac{9}{25}}$
21.	$4\frac{2}{3}$	22.	$\frac{1}{4}$	23.	$-\frac{7}{8}$	24.	$\frac{17}{3}$
25.	$\frac{20}{5}$	26.	-16.3	27.	1.21221222...	28.	23.64
29.	$0.\overline{5}$	30.	$\frac{\pi}{3}$	31.	$0.\overline{83}$	32.	$9.87\overline{5}$
33.	-18	34.	$-\frac{2}{3}$	35.	$\frac{6}{-1}$	36.	$\frac{-1}{-1}$
37.	$\sqrt{25}$	38.	$\sqrt{144}$	39.	$\sqrt{26}$	40.	$-\sqrt{81}$
41.	$\sqrt{100}$	42.	$\sqrt{50}$	43.	$\sqrt{17}$	44.	$-\sqrt{56}$
45.	$\sqrt{1}$	46.	$\sqrt{2}$	47.	$\sqrt{\frac{4}{9}}$	48.	$\sqrt{36}$

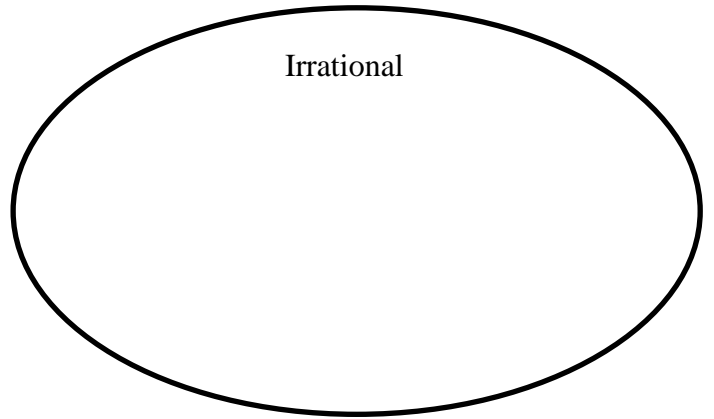
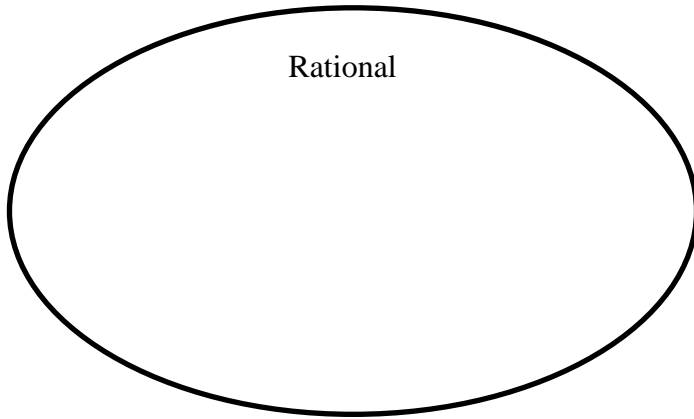
Name:

Date:

Period:

1. Sort the numbers into 2 groups, rational or irrational. Write the numbers in the appropriate bubble.

0.8 $\sqrt{64}$ 0 $\sqrt{32}$ -19 $-\sqrt{100}$ 2.343443444...
 $\frac{3}{7}$ $\sqrt{75}$ $6\frac{2}{7}$ $12.\overline{67}$ $\sqrt{121}$ $\frac{12}{5}$ π



2. Graph and label each number on the number line below. You may label the number with the letter.

A 0.75

B $\sqrt{3}$

C $\sqrt{9}$

D $-2\frac{1}{2}$

E $-\frac{15}{10}$

F $2.\overline{6}$

G $-\sqrt{2}$

H π

