

Rational Numbers Assignment

Math 8

Identify each number as rational or irrational.

1.

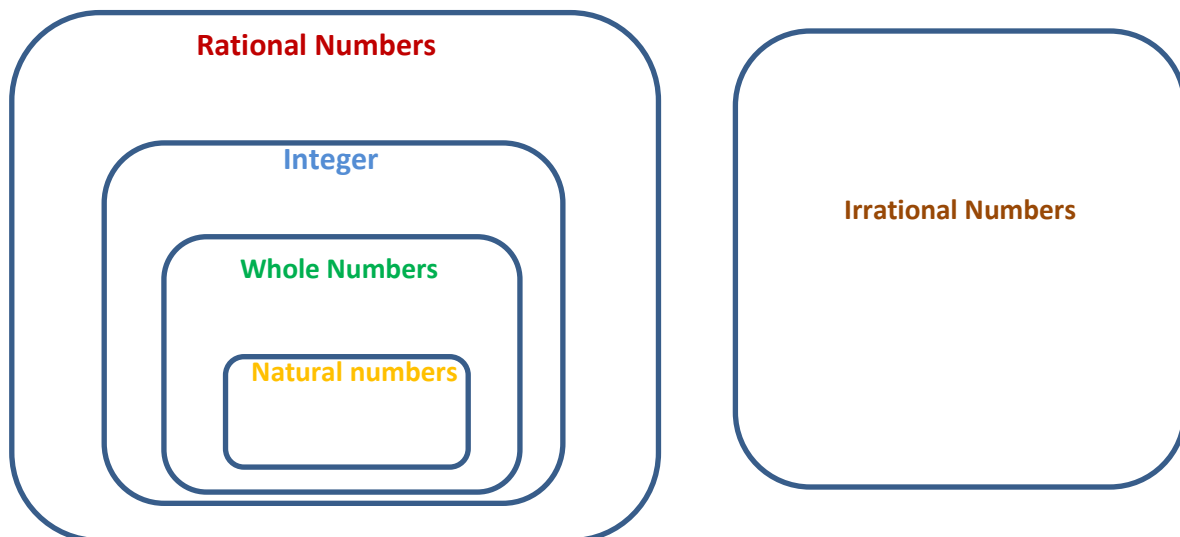
$\frac{5}{10}$	
-3.4	
$\sqrt{121}$	
$\sqrt{31}$	
-4	
1.9999	
$5.\bar{5}$	
$\sqrt{35}$	

2.

$\sqrt{\frac{5}{11}}$	
6	
$\sqrt{529}$	
$\sqrt{12}$	
$-13.\bar{1}$	
1.2323	
$-9.\bar{8}$	
$\sqrt{11}$	

3. Classify the numbers by writing them in the appropriate section of the Venn Diagram.

3.34, $\frac{5}{9}$, $\sqrt{75}$, 6, $\sqrt{10}$, -22, 0, $\sqrt{144}$, -16, $1.\bar{4}$, -3, $\frac{0}{12}$, $\frac{10}{5}$



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Write each rational number as fraction with denominator 2.

4. $51 =$

5. $-45 =$

Write each rational number as fraction with denominator 1.

6. $-3 =$

7. $434 =$

Write each rational number in the form $\frac{p}{q}$, where p and q are integers.

8. $78 =$

9. $-12 =$

10. $0.4 =$

11. $-1\frac{2}{3} =$

Write the numbers in order from least to greatest.

12. $-1, -1.\bar{4}, 1.\bar{4}, 1.4$

13. $122.5, -122.51, -122.\bar{5}, 122.\bar{5}$

14. $\frac{1}{12}, \frac{-1}{12}, \frac{12}{1}, \frac{-12}{1}$

15. $4\frac{2}{3}, -4\frac{2}{3}, -\frac{2}{3}, \frac{2}{3}$

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Graph each pair of numbers on the number line. Use the graph and write $<$, or $>$ or $=$ to compare the numbers.

16.

$$-3\frac{1}{2} \square 1.9$$



17.

$$-3.1 \square -\frac{3}{1}$$



18.

$$2.\bar{9} \square 2.9$$



19.

$$-3.\bar{1} \square -3.1$$



Identify each decimal as repeating or terminating.

20.

1666.5	
4.3434	
1. $\bar{7}$	
44.05	

21.

-33.3	
22.2	
1. $\bar{2}$	
11.10	

22.

-0. $\bar{91}$	
11. $\bar{6}$	
7.2	
0.05	

23.

-1.6	
5.16	
13.9	
14. $\bar{5}$	