

## Classifying Real Numbers

Score \_\_\_\_\_ Per \_\_\_\_\_

1. Give an example of a rational number. \_\_\_\_\_ How do you know it's rational? \_\_\_\_\_  
\_\_\_\_\_
2. Give an example of a natural number. \_\_\_\_\_ How do you know it's natural? \_\_\_\_\_  
\_\_\_\_\_
3. Give an example of an integer. \_\_\_\_\_ How do you know it's an integer? \_\_\_\_\_  
\_\_\_\_\_
4. Give an example of a square root that is an irrational number. \_\_\_\_\_
5. List the 3 smallest whole numbers: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
6. Why is  $\sqrt{2}$  irrational? \_\_\_\_\_
7. Is  $\sqrt{57}$  equivalent to 7.5498? \_\_\_\_\_ Explain. \_\_\_\_\_  
\_\_\_\_\_
8. Is  $-2.\overline{981}$  an irrational number? **Yes** **No** Explain. \_\_\_\_\_  
\_\_\_\_\_

Circle all the number sets to which each number belongs.

9. $\frac{2}{3}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
10. $-\sqrt{20}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
11. $7.\overline{2}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
12. $\frac{12}{4}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
13. $\sqrt{10}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
14. 14	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
15. $-\sqrt[3]{64}$	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>
16. 3.45	<b>Natural</b>	<b>Whole</b>	<b>Integer</b>	<b>Rational</b>	<b>Irrational</b>	<b>Real</b>

17. Place the numbers from **9-16** in order on the number line below:

