Use the choices below to fill in each blank.

Real   natural   whole   irrational $|b|$

Inequality   integers   rational

1. The _____ numbers are {0, 1, 2, 3, 4…}

2. The _____numbers are {1, 2, 3, 4, 5…}

3. The symbols $\neq, \leq, >$ are called _____ symbols.

4. The _____ are {….-3, -2, -1, 0, 1, 2, 3…}

5. The _____ numbers are {all numbers that correspond to points on the number line}.

6. The _____ numbers are $\left\{\dfrac{a}{b}\middle|\ a\ and\ b\ are\ integers, b \neq 0\right\}$

7. The _____ are {nonrational numbers that correspond to points on the number line}.

8. The distance between b and 0 on a number line is _____.

Insert $<, >, or =$ in the appropriate space to make the statement true.

9. 7   3   10. 9   15   11. 6.26   6.26

12. 2.13   1.13   13. $|7|$ -7 14. $|-5|$ -4

15. The freezing point of water is 32° Fahrenheit. The boiling point of water is 212° Fahrenheit. Write an inequality statement using < or > comparing the numbers 32 and 212.

Are the following statements true or false?

16. $11 \leq 11$ 17. $4 \geq 7$ 18. $3 + 8 \geq 3(8)$

Tell whether each statement is true or false.

19. Every rational number is also an integer.

20. Fifteen is greater than 5.

21. Five is greater than or equal to four.
22. Negative ten is less than or equal to thirty-seven.

23. fifteen is not equal to negative two.

24. Negative seven is not equal to seven.

Tell which set or sets each number belongs to.

25. 0 26. $\frac{1}{4}$ 27. -2

28. $-\frac{1}{2}$ 29. 6 30. $\sqrt{3}$

31. $-\sqrt{5}$ 32. $-1\frac{5}{9}$