Name:
Date:
Algebra I
Directions: For questions 1-21: Determine whether the statement is True or False and write your answer on the line provided.

1. Every real number is a rational number.
2. Every rational number is a real number. $\qquad$
3. Every irrational number is a real number.
4. Every real number is an irrational number.
5. Every integer is a rational number.
6. Every whole number is a natural number.
$\qquad$
7. Every natural number is a whole number. $\qquad$
8. $0.3535 \ldots$ is an example of an irrational number. $\qquad$
9. Some numbers are both irrational and rational.
10. $2 / 3$ is an example of an irrational number.
11. Given set $A=\{5,7,9\}$ and set $B=\{d, g, f\}$, set $A$ and set $B$ are equal sets.
12. $4 \in\{$ Natural numbers $\}$.
13. Mary $\in\{$ Joe, Bobby, Danny $\}$.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
14. $\pi$ is an example of a rational number. $\qquad$
15. Counting numbers begin with 0 . $\qquad$
16. $0.3434 \ldots$ is an example of an irrational number. $\qquad$
17. -1.5 is an example of an integer. $\qquad$
18. $\{4,8,12\}$ and $\{8,12,4\}$ are equivalent sets. $\qquad$
19. $5 \in\{$ integers $\}$
20. $\{0,1,2 \ldots\}$ is an example of natural numbers.
21. $\{1,2,3 \ldots\}$ is an example of infinite set.

Directions: For questions $22-25$, identify the number set(s) each term belongs in.
a. Real \#s
b. Irrational \#s
c. Rational \#s
d. Integers
e. Whole \#s
f. Natural \#s
22. -5
23. $\frac{2}{5}$
24. 8
25. П

Directions: For questions $26-30$, write your answer on the line provided.
26. A natural number greater than 12 and less than 13 is part of what set? $\qquad$
27. Members of a given set are called:
28. Set of whole numbers greater than 9 and less than 10 is an example of $\qquad$
29. $1 / 6$ is an example of a $\qquad$ \# and $\qquad$ \#.
30. $\pi$ is an example of a $\qquad$ \# and $\qquad$ \#.

