## NAME

Module 1 Getting Ready for Algebra
Lesson 1 Defining Sets and Real Numbers

DATE
additional practice

Identify all the sets of numbers to which each of the following belong.

1. -5 $\qquad$ 2. 6 $\qquad$
2. $-4 \frac{2}{5}$
$\qquad$ 4. $\sqrt{3}$ $\qquad$
$\qquad$
$\qquad$
$\qquad$

If possible give an example of a number that is.


#### Abstract

$\qquad$


5. a whole number but not a natural number. $\qquad$
6. both a whole number and an irrational number. $\qquad$
7. both a natural number and an integer. $\qquad$
8. both an integer and a rational number.
9. both a natural number and a real number. $\qquad$
10. both a natural number and an irrational number. $\qquad$
11. a rational number but not a whole number. $\qquad$
12. a whole number but not a rational number. $\qquad$

Graph the numbers on the number line provided.
13. $0.5,-0.3,-2.5, \frac{1}{6},-1$, and $\pi$

15. $\frac{1}{4},-\pi,-0.6, \frac{7}{6}$, and $-2 \frac{3}{4}$

14. $-1, \frac{1}{2},-0.2, \sqrt{3}$, and -2

16. $2,-1.75, \frac{4}{5},-3.1$, and $\frac{\pi}{2}$


Determine whether each statement is true or false. If a statement is false, provide an example to show that it is false.
17. The product of two integers is also an integer.
19. The quotient of two natural numbers is also a natural number. $\qquad$
18. The sum of two irrational numbers is also an irrational number. $\qquad$
20. The difference of two rational numbers is also a rational number. $\qquad$

To describe each of the following examples, identify the most reasonable set of numbers from which to choose.
21. Your normal body temperature:
23. Circumference of a circular hot tub divided by its diameter:
$\qquad$
25. Price of a music CD plus sales tax:
27. Baseball batting average:
29. Change in stock market prices:
$\qquad$
22. Temperatures at the North Pole:
24. A student's algebra test average:
26. Score from a football game:
28. Car odometer reading:
30. The square root of 19 :
$\qquad$

