NAME

DATE

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

additiona practice

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

(Black plate)

1. -5 _____ **2.** 6 ____ **3.**
$$-4\frac{2}{5}$$
 ____ **4.** $\sqrt{3}$ ____

4.
$$\sqrt{3}$$

If possible give an example of a number that is . . .

5. a whole number but not a natural number.

6. both a whole number and an irrational number. _____

7. both a natural number and an integer.

8. both an integer and a rational number.

9. both a natural number and a real number. ___

10. both a natural number and an irrational number.

11. a rational number but not a whole number. __

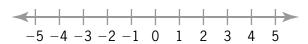
12. a whole number but not a rational number. _

Graph the numbers on the number line provided.

13. 0.5, -0.3, -2.5,
$$\frac{1}{6}$$
, -1, and π

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





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

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. **18.** The sum of two irrational numbers is also

19. The quotient of two natural numbers is also

an irrational number. **20.** The difference of two rational numbers is also

- To describe each of the following examples, identify the most reasonable set of numbers from which to choose.
- **21.** Your normal body temperature:
- **22.** Temperatures at the North Pole:

a rational number.

- 23. Circumference of a circular hot tub divided by its diameter:
- **24.** A student's algebra test average:

- **25.** Price of a music CD plus sales tax:
- **26.** Score from a football game:

27. Baseball batting average:

a natural number. __

28. Car odometer reading:

29. Change in stock market prices:

30. The square root of 19:

