

**Example 4** Identify all sets to which each number belongs.

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8.  $-632$

9.  $0.\overline{56}$

10.  $21$

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**Example 4**

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Identify all sets to which each number belongs.

29.  $-8$

30.  $14$

31.  $9.23$

32.  $1\frac{5}{9}$

33.  $0.323322333\dots$

34.  $3.141516\dots$

57. **WRITING IN MATH** Explain why  $0.\overline{76}$  is greater than  $0.76$ .

~~58. **CHALLENGE** Antonio stated that  $0.\overline{9} = 1$ . Show that he is correct.~~

59. **REASONING** Determine whether the following statements are *true* or *false*. If true, explain your reasoning. If false, give a counterexample.

- a. All integers are rational numbers.
- b. All whole numbers are integers.
- c. A rational number is always an integer.
- d. All natural numbers are rational.

60. **WRITING IN MATH** How are repeating decimals usually represented in real-world situations? Give an example to explain your reasoning.

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Q. 8-10, 29-34, 57, 59-60