

Name \_\_\_\_\_

**Determine whether natural numbers, whole numbers, integers, rational numbers, or all real numbers are appropriate for the situation.**

- 1) weights of MLB players
  
  
  
  
  
  
  
  
  
  
- 2) heights of NFL players
  
  
  
  
  
  
  
  
  
  
- 3) number of people in attendance at a college football game
  
  
  
  
  
  
  
  
  
  
- 4) number of people in attendance at a college fastpitch game
  
  
  
  
  
  
  
  
  
  
- 5) the number of hamsters a person owns
  
  
  
  
  
  
  
  
  
  
- 6) the number of fish a person owns
  
  
  
  
  
  
  
  
  
  
- 7) values of A given by the formula  $A = \pi r^2$ , where A is the area of a circle with radius r

**List all the elements of B that are elements of the given set.**

- 8)  $B = \{5, \sqrt{8}, -9, 0, \frac{0}{8}, \sqrt{4}\}$  Integers
  
  
  
  
  
  
  
  
  
  
- 9)  $B = \{8, \sqrt{6}, -3, 0, \frac{0}{7}, \sqrt{9}\}$  Integers
  
  
  
  
  
  
  
  
  
  
- 10)  $B = \{11, \sqrt{5}, -8, 0, \frac{0}{4}, \sqrt{16}\}$  Whole numbers
  
  
  
  
  
  
  
  
  
  
- 11)  $B = \{8, \sqrt{5}, -13, 0, \frac{0}{2}, \sqrt{9}\}$  Whole numbers
  
  
  
  
  
  
  
  
  
  
- 12)  $B = \{10, \sqrt{6}, -12, 0, \frac{0}{16}, \sqrt{16}\}$  Natural numbers
  
  
  
  
  
  
  
  
  
  
- 13)  $B = \{13, \sqrt{6}, -17, 0, \frac{0}{16}, \sqrt{16}\}$  Natural numbers
  
  
  
  
  
  
  
  
  
  
- 14)  $B = \{10, \sqrt{8}, -14, 0, \frac{0}{8}, \sqrt{9}, \frac{-4}{0}\}$  Real numbers

15)  $B = \{17, \sqrt{6}, -19, 0, \frac{0}{5}, \sqrt{4}, \frac{-6}{0}\}$  Real numbers

22)  $B = \{2, \sqrt{8}, -14, 0, \frac{0}{7}, \sqrt{4}\}$  Whole numbers

16)  $B = \{20, \sqrt{5}, -19, 0, \frac{0}{4}, \sqrt{4}, \frac{-6}{0}\}$  Real numbers

23)  $B = \{9, \sqrt{8}, -17, 0, \frac{0}{16}, \sqrt{16}\}$  Natural numbers

17)  $B = \{6, \sqrt{6}, -9, 0, \frac{0}{8}, \sqrt{9}, \frac{-4}{0}, 0.3\}$  Rational numbers

24)  $B = \{14, \sqrt{6}, -3, 0, \frac{0}{8}, \sqrt{16}, \frac{-4}{0}\}$  Real numbers

18)  $B = \{13, \sqrt{7}, -4, 0, \frac{0}{9}, \sqrt{4}, \frac{-6}{0}, 0.45\}$  Rational numbers

25)  $B = \{7, \sqrt{5}, -4, 0, \frac{0}{5}, \sqrt{4}, \frac{-5}{0}, 0.21\}$  Rational numbers

19)  $B = \{19, \sqrt{5}, -14, 0, \frac{0}{7}, \sqrt{16}, \frac{-3}{0}, 0.85\}$  Irrational numbers

26)  $B = \{12, \sqrt{5}, -4, 0, \frac{0}{3}, \sqrt{16}, \frac{-7}{0}, 0.35\}$  Rational numbers

20)  $B = \{1, \sqrt{5}, -9, 0, \frac{0}{1}, \sqrt{9}, \frac{-8}{0}, 0.24\}$  Irrational numbers

27)  $B = \{15, \sqrt{5}, -12, 0, \frac{0}{4}, \sqrt{4}, \frac{-8}{0}, 0.93\}$  Irrational numbers

21)  $B = \{10, \sqrt{6}, -6, 0, \frac{0}{9}, \sqrt{16}\}$  Integers

28)  $B = \{19, \sqrt{5}, -22, 0, \frac{0}{7}, \sqrt{4}, \frac{-8}{0}, 0.58\}$  Irrational numbers

## Answer Key

Testname: 01.3V01A

- 1) rational numbers
- 2) rational numbers
- 3) natural numbers
- 4) natural numbers
- 5) whole numbers
- 6) whole numbers
- 7) all real numbers
- 8)  $5, -9, 0, \frac{0}{8}, \sqrt{4}$
- 9)  $8, -3, 0, \frac{0}{7}, \sqrt{9}$
- 10)  $11, 0, \frac{0}{4}, \sqrt{16}$
- 11)  $8, 0, \frac{0}{2}, \sqrt{9}$
- 12)  $10, \sqrt{16}$
- 13)  $13, \sqrt{16}$
- 14)  $10, \sqrt{8}, -14, 0, \frac{0}{8}, \sqrt{9}$
- 15)  $17, \sqrt{6}, -19, 0, \frac{0}{5}, \sqrt{4}$
- 16)  $20, \sqrt{5}, -19, 0, \frac{0}{4}, \sqrt{4}$
- 17)  $6, -9, 0, \frac{0}{8}, \sqrt{9}, 0.3$
- 18)  $13, -4, 0, \frac{0}{9}, \sqrt{4}, 0.45$
- 19)  $\sqrt{5}$
- 20)  $\sqrt{5}$
- 21)  $10, -6, 0, \frac{0}{9}, \sqrt{16}$
- 22)  $2, 0, \frac{0}{7}, \sqrt{4}$
- 23)  $9, \sqrt{16}$
- 24)  $14, \sqrt{6}, -3, 0, \frac{0}{8}, \sqrt{16}$
- 25)  $7, -4, 0, \frac{0}{5}, \sqrt{4}, 0.21$
- 26)  $12, -4, 0, \frac{0}{3}, \sqrt{16}, 0.35$
- 27)  $\sqrt{5}$
- 28)  $\sqrt{5}$