

Name _____

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

- 1) heights of MLB players

- 2) weights of MLB players

- 3) number of people in attendance at a college baseball game

- 4) number of people in attendance at a college basketball game

- 5) the number of dogs a person owns

- 6) the number of birds 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) $B = \{13, \sqrt{6}, -20, 0, \frac{0}{6}, \sqrt{25}\}$ Integers

- 9) $B = \{14, \sqrt{5}, -10, 0, \frac{0}{2}, \sqrt{16}\}$ Integers

- 10) $B = \{13, \sqrt{7}, -22, 0, \frac{0}{3}, \sqrt{25}\}$ Whole numbers

- 11) $B = \{11, \sqrt{6}, -10, 0, \frac{0}{9}, \sqrt{9}\}$ Whole numbers

- 12) $B = \{10, \sqrt{7}, -12, 0, \frac{0}{9}, \sqrt{9}\}$ Natural numbers

- 13) $B = \{11, \sqrt{5}, -23, 0, \frac{0}{25}, \sqrt{25}\}$ Natural numbers

- 14) $B = \{17, \sqrt{7}, -10, 0, \frac{0}{9}, \sqrt{9}, \frac{-4}{0}\}$ Real numbers

15) $B = \{12, \sqrt{8}, -14, 0, \frac{0}{1}, \sqrt{16}, \frac{-3}{0}\}$ Real numbers

22) $B = \{9, \sqrt{6}, -9, 0, \frac{0}{9}, \sqrt{16}\}$ Whole numbers

16) $B = \{16, \sqrt{5}, -11, 0, \frac{0}{2}, \sqrt{25}, \frac{-6}{0}\}$ Real numbers

23) $B = \{14, \sqrt{6}, -3, 0, \frac{0}{9}, \sqrt{9}\}$ Natural numbers

17) $B = \{18, \sqrt{5}, -14, 0, \frac{0}{5}, \sqrt{16}, \frac{-4}{0}, 0.97\}$ Rational numbers

24) $B = \{1, \sqrt{6}, -23, 0, \frac{0}{9}, \sqrt{16}, \frac{-5}{0}\}$ Real numbers

18) $B = \{9, \sqrt{5}, -24, 0, \frac{0}{8}, \sqrt{25}, \frac{-4}{0}, 0.25\}$ Rational numbers

25) $B = \{3, \sqrt{5}, -21, 0, \frac{0}{9}, \sqrt{9}, \frac{-5}{0}, 0.76\}$ Rational numbers

19) $B = \{20, \sqrt{5}, -3, 0, \frac{0}{9}, \sqrt{4}, \frac{-6}{0}, 0.54\}$ Irrational numbers

26) $B = \{7, \sqrt{7}, -11, 0, \frac{0}{8}, \sqrt{4}, \frac{-2}{0}, 0.78\}$ Rational numbers

20) $B = \{8, \sqrt{7}, -3, 0, \frac{0}{3}, \sqrt{4}, \frac{-2}{0}, 0.85\}$ Irrational numbers

27) $B = \{5, \sqrt{7}, -16, 0, \frac{0}{7}, \sqrt{9}, \frac{-4}{0}, 0.06\}$ Irrational numbers

21) $B = \{1, \sqrt{6}, -19, 0, \frac{0}{3}, \sqrt{4}\}$ Integers

28) $B = \{15, \sqrt{5}, -12, 0, \frac{0}{3}, \sqrt{25}, \frac{-6}{0}, 0.56\}$ Irrational numbers

Answer Key

Testname: 01.3V01B

- 1) rational numbers
- 2) rational numbers
- 3) natural numbers
- 4) natural numbers
- 5) whole numbers
- 6) whole numbers
- 7) all real numbers
- 8) $13, -20, 0, \frac{0}{6}, \sqrt{25}$
- 9) $14, -10, 0, \frac{0}{2}, \sqrt{16}$
- 10) $13, 0, \frac{0}{3}, \sqrt{25}$
- 11) $11, 0, \frac{0}{9}, \sqrt{9}$
- 12) $10, \sqrt{9}$
- 13) $11, \sqrt{25}$
- 14) $17, \sqrt{7}, -10, 0, \frac{0}{9}, \sqrt{9}$
- 15) $12, \sqrt{8}, -14, 0, \frac{0}{1}, \sqrt{16}$
- 16) $16, \sqrt{5}, -11, 0, \frac{0}{2}, \sqrt{25}$
- 17) $18, -14, 0, \frac{0}{5}, \sqrt{16}, 0.97$
- 18) $9, -24, 0, \frac{0}{8}, \sqrt{25}, 0.25$
- 19) $\sqrt{5}$
- 20) $\sqrt{7}$
- 21) $1, -19, 0, \frac{0}{3}, \sqrt{4}$
- 22) $9, 0, \frac{0}{9}, \sqrt{16}$
- 23) $14, \sqrt{9}$
- 24) $1, \sqrt{6}, -23, 0, \frac{0}{9}, \sqrt{16}$
- 25) $3, -21, 0, \frac{0}{9}, \sqrt{9}, 0.76$
- 26) $7, -11, 0, \frac{0}{8}, \sqrt{4}, 0.78$
- 27) $\sqrt{7}$
- 28) $\sqrt{5}$