

The Number Systems and the
Real Number Line

1. Write each set
(similar to p.26 #23-27)

A is the set of natural numbers less
than 7

2. Write each set
(similar to p.26 #23-27)

A is the set of whole numbers less
than 4

3. Write each set
(similar to p.26 #23-27)

C is the set of integers between -2 and
3 including -2 and 3

4. List the elements in the set
(similar to p.26 #29-39)

$$\left\{ -3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots \right\}$$

natural numbers

5. List the elements in the set
(similar to p.26 #29-39)

$$\left\{ -3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots \right\}$$

whole numbers

6. List the elements in the set
(similar to p.26 #29-39)

$$\left\{-3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots\right\}$$

integers

7. List the elements in the set
(similar to p.26 #29-39)

$$\left\{-3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots\right\}$$

rational numbers

8. List the elements in the set
(similar to p.26 #29-39)

$$\left\{-3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots\right\}$$

irrational numbers

9. List the elements in the set
(similar to p.26 #29-39)

$$\left\{-3, -2.1, 0, \frac{1}{2}, 0.\bar{3}, 5, 1.202002000\dots\right\}$$

real numbers

10. Plot the points in each set on a real
number line (similar to p.27 #41)

$$\left\{-2, 0, \frac{1}{2}, 5.2\right\}$$

11. Determine whether the statement
is true or false (similar to p.27 #43-49)

$$-3 < -7$$

12. Determine whether the statement is true or false (similar to p.27 #43-49)

$$-1 \geq -8$$

13. Replace the ? with the correct symbol: >, <, = (similar to p.27 #51-57)

$$-9 ? -2$$

14. Replace the ? with the correct symbol: >, <, = (similar to p.27 #51-57)

$$\frac{2}{5} ? \frac{1}{3}$$

15. Evaluate each expression (similar to p.27 #59-65)

$$|7|$$

16. Evaluate each expression (similar to p.27 #59-65)

$$\left| \frac{-2}{3} \right|$$