

# Number Lines Lesson 3

## Graphing Inequalities

### Greater Than Graphing Activity

Graph each inequality on a new number line. Number your answers and include the original problem. Notice that they all involve the symbol for greater than ( $>$ ) or the symbol for greater than or equal to ( $\geq$ ). Therefore, you will need to end each number line with two right-pointing arrowheads (or a bold right-pointing arrowhead). [There is a braille answer document "L3-NL-GT-Activity-A-Answers.brf" that can be used to independently check answers.]

1.  $x$  is greater than 4.

$$x > 4$$

⠠⠭ ⠨⠗ ⠠⠼

2.  $x$  is greater than or equal to 4.

$$x \geq 4$$

⠠⠭ ⠨⠠⠼ ⠠⠼

3.  $x$  is greater than 0.

$$x > 0$$

⠠⠭ ⠨⠗ ⠠⠐

4.  $x$  is greater than or equal to 30.

$$x \geq 30$$

⠠⠭ ⠨⠠⠼ ⠠⠼⠐

5.  $x$  is greater than negative 2.

$$x > -2$$

⠠⠭ ⠨⠗ ⠠⠼⠤

6.  $x$  is greater than or equal to negative 4.

$$x \geq -4$$

Figure 1 shows six 3x3 dot patterns labeled (a) through (f). Each pattern consists of black dots on a 3x3 grid. (a) has 8 dots, (b) has 7 dots, (c) has 6 dots, (d) has 5 dots, (e) has 4 dots, and (f) has 3 dots.