

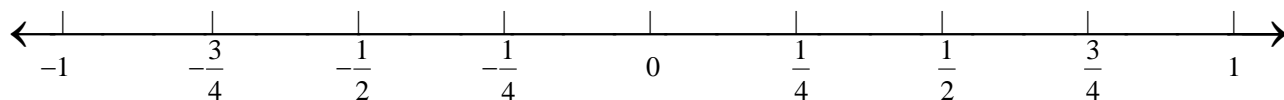
## Chapter 2 Section 1: Kinds of Numbers

### Problems

Indicate True or False for each of the following (in some cases, it might help to draw a number line).

- |                                     |  |  |
|-------------------------------------|--|--|
| 1. 0 is a counting number.<br>_____ | 2. $-4$ is a whole number.<br>_____        | 3. $-\frac{3}{5}$ is a rational number.<br>_____ |
| 4. $-7$ is an integer.<br>_____     | 5. $-7$ is a rational number.<br>_____     | 6. $\sqrt{2}$ is an irrational number.<br>_____  |
| 7. 0 is a negative number.<br>_____ | 8. There are numbers less than 0.<br>_____ | 9. $\frac{2}{5} = 0.4$<br>_____                  |
| 10. $\frac{2}{3} = 0.66$<br>_____   | 11. $\frac{1}{4} = 0.25$<br>_____          | 12. $\frac{5}{8} = 0.62$<br>_____                |
| 13. $\frac{1}{9} = 0.11$<br>_____   | 14. $6 > 5$<br>_____                       | 15. $-8 < -9$<br>_____                           |
| 16. $-6 > -5$<br>_____              | 17. $5 > -5$<br>_____                      | 18. $8 > 7$<br>_____                             |
| 19. $-5 < -4$<br>_____              | 20. $0 > -1$<br>_____                      | 21. $-4 < -2$<br>_____                           |
| 22. $-5 < 4$<br>_____               | 23. $7 < -10$<br>_____                     |  |

Use the number line of fractions below to answer the following as True or False.



- |  |  |   |
|--|--|---|
| 24. $\frac{1}{2} > \frac{1}{4}$ _____  | 25. $\frac{3}{4} < 1$ _____            | 26. $-\frac{1}{4} < -\frac{1}{2}$ _____ |
| 27. $\frac{1}{4} > -\frac{1}{2}$ _____ | 28. $-\frac{3}{4} > \frac{1}{2}$ _____ | 29. $\frac{1}{4} < -\frac{1}{2}$ _____  |
| 30. $\frac{3}{4} > -\frac{1}{2}$ _____ | 31. $-\frac{3}{4} > \frac{1}{4}$ _____ | 32. $\frac{1}{2} > \frac{3}{4}$ _____   |

33.  $-\frac{1}{4} > -\frac{3}{4}$  \_\_\_\_\_

34.  $0 < \frac{1}{4}$  \_\_\_\_\_

35.  $-\frac{1}{4} > -\frac{1}{2}$  \_\_\_\_\_

36.  $0 > -\frac{1}{2}$  \_\_\_\_\_

37.  $\frac{3}{4} > -\frac{1}{4}$  \_\_\_\_\_

38.  $0 > -\frac{3}{4}$  \_\_\_\_\_

39.  $-\frac{1}{4} < \frac{1}{4}$  \_\_\_\_\_

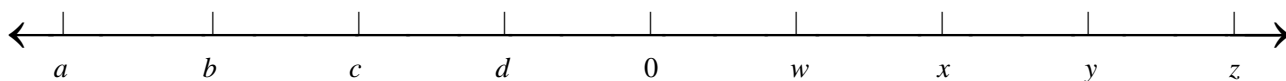
40.  $0 < -1$  \_\_\_\_\_

41.  $\frac{1}{2} < -\frac{3}{4}$  \_\_\_\_\_

42.  $0 > -1$  \_\_\_\_\_

43.  $-1 < 1$  \_\_\_\_\_

On the following number line, numbers have been replaced by variables. Indicate whether the statements given are True or False.



44.  $a < x$  \_\_\_\_\_

45.  $z > d$  \_\_\_\_\_

46.  $0 > c$  \_\_\_\_\_

47.  $x < 0$  \_\_\_\_\_

48.  $0 < y$  \_\_\_\_\_

49.  $c > b$  \_\_\_\_\_

50.  $0 > c$  \_\_\_\_\_

51.  $b < d$  \_\_\_\_\_

52.  $a > z$  \_\_\_\_\_

53.  $0 > d$  \_\_\_\_\_

54.  $w < 0$  \_\_\_\_\_

55.  $z < d$  \_\_\_\_\_