

Applied Algebra 2.1

Graph integers on a number line

Compare integers

Order integers

number line

positive number

zero

negative number

integer

whole number

natural number

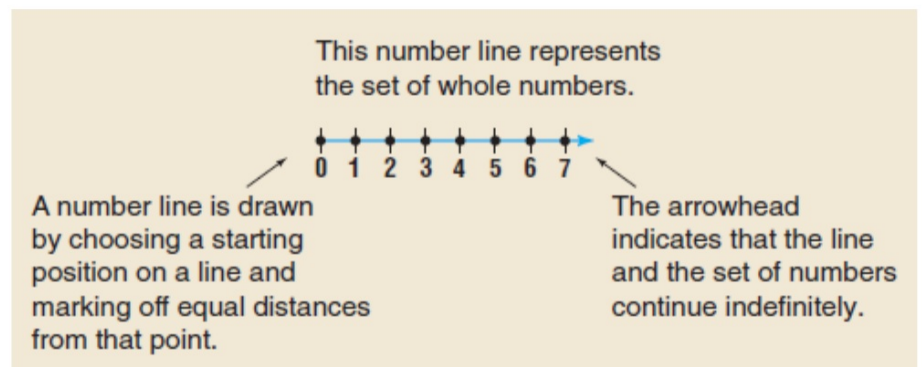
graph

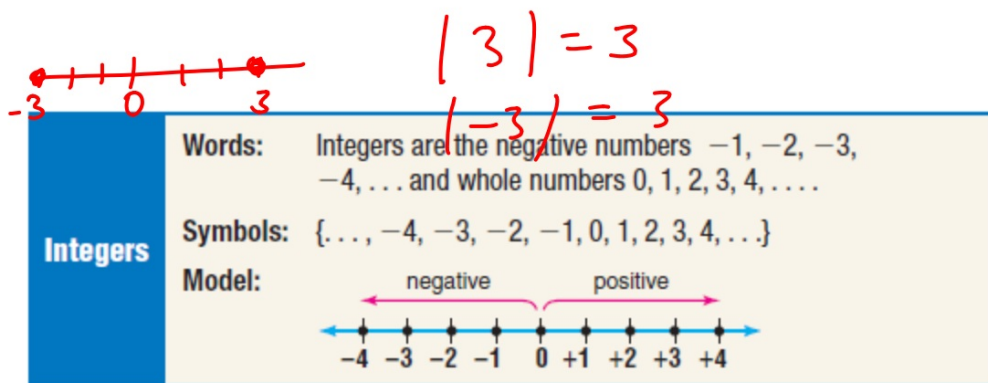
coordinate

absolute value

order of operations

activity: cards compare





Zero is neither negative nor positive.

Replace each ● with $<$ or $>$ to make a true sentence.

(Examples 3 & 4)

12. $-8 \text{ ● } -5$

13. $-4 \text{ ● } 2$

14. $9 \text{ ● } -7$

Evaluate each expression. *(Examples 6 & 7)*

15. $|-8| + |-2|$
 $8 + 2 = 10$

16. $|-7| - |4|$
 $7 - 4 = 3$

17. **Meteorology** The table gives the record low temperatures for each month at the Grand Canyon Airport in Arizona. Order the temperatures from least to greatest. (Example 5)

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature (°F)	-22	-17	-7	9	10	26	35	35	22	13	-1	-14

Source: The Weather Almanac

$-22, -17, -14, -7, -1, 9, 10, 13, 22, 26, 35, 35$
 mean = $\left(\frac{89}{12} \right) \approx 7.4$
 9.5 med
 Range 57
 mode

Replace each $\bullet$ with $<$ or $>$ to make a true sentence.

30. $4 \bullet -4$

31. $0 \bullet -2$

32. $-2 \bullet -1$

33. $2 \bullet -3$

34. $-10 \bullet 1$

35. $-15 \bullet -10$

36. $-5 \bullet |-5|$

37. $|4| \bullet -4$

38. $|-6| \bullet |-3|$

$\downarrow$
6

$\downarrow$
3

R ↓

Evaluate each expression.

39. $|-6| = 6$

42. $|-7| + |-2|$
9

J ↓

40. $|10| = 10$

43. $|14| - |-5|$
9

K ↓

41. $|-5| - |3| = 2$

44. $|-13| + |-17| = 30$