

## 1.2 – Integers, Absolute Value and Properties

Write a number to represent each situation. Then write the opposite of that number.

- |                                 |       |       |
|---------------------------------|-------|-------|
| 1. Five steps down              | _____ | _____ |
| 2. Two rooms to the right       | _____ | _____ |
| 3. 190 <i>m</i> above sea level | _____ | _____ |
| 4. Nine degrees below zero      | _____ | _____ |
| 5. Four losses                  | _____ | _____ |

Graph the given numbers on a number line.

6.  $1, -5, -3, 4, 3, 0$  

7.  $0, -2, \frac{1}{3}, -\frac{1}{2}, 1$  

Simplify.

8.  $|-5| =$  \_\_\_\_\_

9.  $|12| =$  \_\_\_\_\_

10.  $|-3| =$  \_\_\_\_\_

11.  $|0| + |-6| =$  \_\_\_\_\_

12.  $|7| + |-7| =$  \_\_\_\_\_

13.  $|17 - 9| =$  \_\_\_\_\_

14.  $3|-6| =$  \_\_\_\_\_

15.  $5|-6| + |-3| =$  \_\_\_\_\_

16.  $-|5| =$  \_\_\_\_\_

17.  $3|12| - 4|-2| =$  \_\_\_\_\_

Compare each pair of numbers using  $<$ ,  $>$ , or  $=$ .

18.  $7 \underline{\hspace{1cm}} 4$

19.  $-5 \underline{\hspace{1cm}} -2$

20.  $|4| \underline{\hspace{1cm}} -4$

21.  $-1 \underline{\hspace{1cm}} \frac{2}{3}$

22.  $0 \underline{\hspace{1cm}} -3$

23.  $10 \underline{\hspace{1cm}} |10|$

24.  $|-9| \underline{\hspace{1cm}} -|-4|$

25.  $1 \underline{\hspace{1cm}} -|4|$

Name the property illustrated.

26.  $(6 + 4) + 2 = 6 + (4 + 2)$

\_\_\_\_\_

27.  $7 + 6 = 6 + 7$

\_\_\_\_\_

28.  $7(ab) = (7a)b$

\_\_\_\_\_

29.  $10x + 10y = 10(x + y)$

\_\_\_\_\_

30.  $(5x^2 + x) - 3 = (x + 5x^2) - 3$

\_\_\_\_\_

31.  $4(a - 5b) = 4a - 20b$

\_\_\_\_\_

32.  $3(5 + c) = (5 + c) 3$

\_\_\_\_\_

33.  $7x + (\frac{1}{2}y + z) = (7x + \frac{1}{2}y) + z$

\_\_\_\_\_

34.  $5(4 + 3) - 36 \div 9$

35.  $\frac{4 \cdot 3 + 44 \div 11}{7 - 2 - 3}$

36.  $12 \div [12 - 2(2 + 3)] + 6$