

**Chapter Test A***For use after Chapter 2*

Tell whether the number is a real number, a rational number, an irrational number, an integer, or a whole number.

1.  $1\frac{5}{8}$

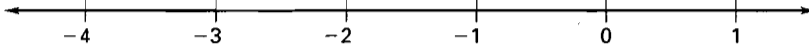
2.  $-10$

3.  $0.2$

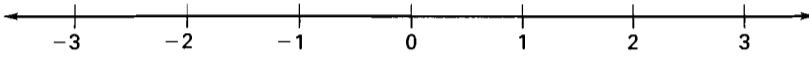
4.  $7$

Graph the numbers on the number line. Then order the numbers from least to greatest.

5.  $-3, \frac{1}{2}, 0, -2$



6.  $2, -1.5, 1, -\frac{9}{4}$



Identify the property being illustrated.

7.  $(-2 + 3) + 5 = -2 + (3 + 5)$

8.  $7 + (-7) = 0$

9.  $2(x + 3) = 2x + 6$

10.  $6 \cdot (-3) = -3 \cdot 6$

Find the sum.

11.  $-4 + (-1)$

12.  $8 + (-2)$

13.  $-13 + 6$

14. In Alaska, the elevation of Mount McKinley is 45,514 feet higher than the Aleutian Trench, which is 25,194 feet below sea level. What is the elevation of Mount McKinley?

Find the difference.

15.  $11 - (-9)$

16.  $-7 - 5$

17.  $-15 - (-8)$

**Answers**

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_

5. See left.

\_\_\_\_\_

6. See left.

\_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

**Chapter Test A** *continued*  
*For use after Chapter 2*

**Tell whether the statement is true or false. If it is false, give a counterexample.**

18. If a number is a negative integer, then the number is a whole number.  
19. If a number is an integer, then the number is a real number.

**Find the change in temperature or elevation.**

20. From  $35^{\circ}\text{F}$  to  $-12^{\circ}\text{F}$   
21. From  $-560$  meters to  $-240$  meters

**Evaluate the expression when  $x = 7$  and  $y = -3$ .**

22.  $x + y$                       23.  $x - y$                       24.  $|y| - x$

**Find the product or quotient.**

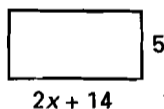
25.  $-9(3)$                       26.  $-5 \cdot 0$                       27.  $\frac{3}{4}(-12)$   
28.  $-18 \div (-3)$               29.  $28 \div (-7)$               30.  $-15 \div \frac{1}{2}$   
31. Find the mean of the numbers  $-12$ ,  $-9$ ,  $3$ , and  $6$ .

**Evaluate the expression when  $x = -2$  and  $y = -5$ .**

32.  $-xy$                       33.  $-x + 2y$                       34.  $\frac{2x + y}{-3}$

**Simplify the expression.**

35.  $9 + 7a - 2 - 10a$   
36.  $3x + 6(x - 5)$   
37.  $\frac{14x - 2}{2}$   
38. Find the perimeter and the area of the rectangle with the given dimensions.



**Evaluate the expression.**

39.  $\pm\sqrt{25}$                       40.  $\sqrt{121}$                       41.  $-\sqrt{1}$

**Answers**

18. \_\_\_\_\_  
19. \_\_\_\_\_  
20. \_\_\_\_\_  
21. \_\_\_\_\_  
22. \_\_\_\_\_  
23. \_\_\_\_\_  
24. \_\_\_\_\_  
25. \_\_\_\_\_  
26. \_\_\_\_\_  
27. \_\_\_\_\_  
28. \_\_\_\_\_  
29. \_\_\_\_\_  
30. \_\_\_\_\_  
31. \_\_\_\_\_  
32. \_\_\_\_\_  
33. \_\_\_\_\_  
34. \_\_\_\_\_  
35. \_\_\_\_\_  
36. \_\_\_\_\_  
37. \_\_\_\_\_  
38. \_\_\_\_\_  
39. \_\_\_\_\_  
40. \_\_\_\_\_  
41. \_\_\_\_\_