

CHAPTER
2**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. $1\frac{5}{8}$

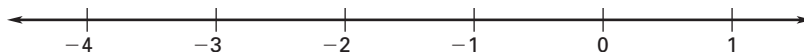
2. -10

3. 0.2

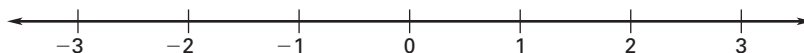
4. 7

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
2**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°F to -12°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.

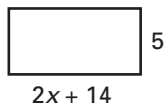
25. $-9(3)$ 26. $-5 \cdot 0$ 27. $\frac{3}{4}(-12)$
28. $-18 \div (-3)$ 29. $28 \div (-7)$ 30. $-15 \div \frac{1}{2}$
31. Find the mean of the numbers -12 , -9 , 3 , and 6 .

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. _____
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37. _____
38. _____
39. _____
40. _____
41. _____