

**Chapter Test C**

For use after Chapter 1

**Graph the numbers on a number line. Then write the numbers in increasing order.**

1.  $\frac{9}{4}, -\sqrt{9}, \frac{4}{3}, \sqrt{4}, 0, -\frac{1}{3}$

2.  $1.5, -\sqrt{5}, 0, \frac{5}{3}, -3, \frac{14}{5}$

**Identify the property shown.**

3.  $5 + (-5) = 0$

4.  $2(x + 2) = 2x + 4$

**Select and perform an operation to answer the question.**

5. What is the difference of  $-9$  and  $-3$ ?6. What is the quotient of  $\frac{3}{4}$  and  $-\frac{1}{2}$ ?

**Evaluate the expression.**

7.  $-5^3 + 1$

8.  $6^2 + (8 \div 4)(3)$

9.  $x^3 + x^2 + x$  when  $x = -3$

10.  $3xy + xy - 4xy$  when  $x = -1$  and  $y = 1$

**Simplify the expression.**

11.  $3x - (4y - 3x) - 4y$

12.  $x^3 + x^2 + x$

**Solve the equation.**

13.  $7y - 14 = -7y + 14$

14.  $1.5x + 4.5 = x - 0.5$

15.  $\frac{1}{2}(4x + 8) = -4$

16.  $-3(x - 2) = 5(2x + 1)$

17.  $|x - 5| = 8$

18.  $|2x + 7| = 1$

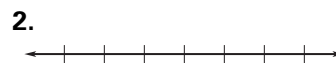
**Solve the equation for  $y$ .**

19.  $2x - y = -4$

20.  $x + \frac{1}{2}y = -\frac{1}{3}$

21.  $4x - 5xy = 7$

22.  $x^2 + y = -4$

**Answers**

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

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

5. \_\_\_\_\_

6. \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

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**Solve the inequality. Then graph your solution.**

23.  $4x - 7 \leq -11$

24.  $6 - 2x > -x$

25.  $-4 < x - 1 < 2$

26.  $10 < -2x$  or  $2x \geq 0$

27. The formula for the perimeter of a rectangle is  $P = 2l + 2w$ . Solve the formula for  $w$ . What is the width of a rectangle with a perimeter of 30 meters and a length of 8 meters?

28. **Golf** Par on the golf course is 72. You played six rounds of golf last week. Your scores were 72, 74, 70, 69, 80, and 75. How many shots were you over par for the week?

29. **Concert Tickets** Tickets for a certain concert are \$34.95 each. You and four of your friends go to the concert. You decide to pay for all the tickets, plus the \$10 parking fee. How much money will you spend?

30. **Numbers** Five times a number is greater than the number decreased by 12. Write these numbers as an inequality.

23. \_\_\_\_\_



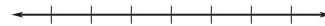
24. \_\_\_\_\_



25. \_\_\_\_\_



26. \_\_\_\_\_



27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_