

**Chapter Test A**

For use after Chapter 1

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

1.  $-4, \sqrt{25}, \frac{1}{2}, 0, -\sqrt{4}$

2.  $-\frac{3}{2}, \frac{7}{4}, 0, 2.5, -2.5$

**Identify the property shown.**

3.  $5 \cdot 1 = 5$

4.  $4 + 5 + 3 = 5 + 4 + 3$

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

5. What is the difference of 9 and  $-6$ ?6. What is the quotient of 15 and  $-3$ ?

**Evaluate the expression.**

7.  $5 + 3 \cdot 4 \div 2$

8.  $(-3)^2 - (5 - 4)$

9.  $2x - 3y$  when  $x = -1$  and  $y = 0$

10.  $4x^2 + 2y + 0$  when  $x = 4$  and  $y = 32$ .

**Simplify the expression.**

11.  $3x^2 + 4y - 2x^2 - 5y$

12.  $-3(x^2 - 2) - 2(2x^2 - 1)$

**Solve the equation.**

13.  $x - 4 = 4$

14.  $2a + \frac{2}{3} = a - \frac{1}{3}$

15.  $1.5(2x + 2) = 6$

16.  $2(x + 2) = 4(x - 1) + 4$

17.  $|x + 2| = 7$

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

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

19.  $x + y = -2$

20.  $x - y = 2$

21.  $3(x + y) = 4$

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

**Answers**

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

23.  $3x + 3 \geq 12$

24.  $4 - x < 2x + 1$

25.  $-2 \leq x + 1 \leq 5$

26.  $-2 < x + 1$  or  $2x \geq 6$

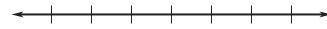
27. The formula for the area of a triangle is  $A = \frac{1}{2}bh$ . Solve the formula for  $b$ . What is the base of a triangle with an area of 20 square inches and a height of 5 inches?

28. **Golf** You played six rounds of golf last week. In relationship to par, your scores were  $-1$ ,  $+2$ ,  $-2$ ,  $+4$ ,  $+6$ , and  $-2$ . Add these numbers to see what your score was for the week.

29. **Amusement Park Tickets** Tickets for a local amusement park are \$12.95 each. You and five of your friends go to the park. You decide to pay for all the tickets. How much money will you spend?

30. **Numbers** Two more than twice a number is equal to the number itself. Find the number.

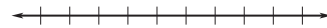
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24. \_\_\_\_\_



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



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



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

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

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

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