

Chapter 1 Test

Form A

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Name _____

Date _____

1. Plot the numbers on the real number line. Then decide which is the greatest.

$$\frac{5}{2}, -\frac{3}{2}, 5$$



1. _____
Use graph at left.

2. Write the numbers in *increasing* order.

$$\frac{5}{3}, -2, 0, -\frac{7}{2}, \frac{3}{5}, \frac{4}{3}, -1$$

2. _____

3. State the property that is illustrated.

$$3 \cdot (5 \cdot 7) = (3 \cdot 5) \cdot 7$$

3. _____

4. State the property that is illustrated.

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

4. _____

5. What is the difference of 15 and -12 ?

5. _____

6. Evaluate the expression. $80 - (20)(3) \div 5$

6. _____

7. Evaluate $(7 + 5y) \div 3x$ when $x = \frac{1}{6}$ and $y = 3$.

7. _____

8. Evaluate the expression to two decimal places.

$$37.15 - 4.55z \text{ when } z = 3.42$$

8. _____

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9. Solve the equation.

$$-x + 3 = 7x + 8$$

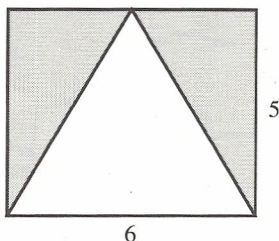
9. _____

10. Solve the equation.

$$5(3 - 4x) = 7 - (4 - x)$$

10. _____

11. **Geometry** Find the area of the shaded region.



11. _____

12. Write the following expression using exponents.

“ x cubed, times 3 to the n th power”

12. _____

13. Evaluate $2a^3 + (2a)^2$ when $a = -2$.

13. _____

14. **Average Salary** For 1980 through 1990, the average salary, A , (in 1000's of dollars), of assistant principals at public high schools can be modeled by $A = 2t + 25$ where $t = 0$ represents 1980. Approximate a high school assistant principal's salary in 1987.

14. _____

15. **Temperature Conversion** Solve for F .

$$C = \frac{5}{9}(F - 32)$$

15. _____

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16. Solve for q .

$$p^2q - 3q = 14$$

16. _____

17. Solve the inequality and sketch its graph.

$$x - 1 < -2(2 + x)$$



17. _____
Use graph at left.

18. Is $x = \frac{5}{2}$ a solution of the inequality

$$5x - 4 \leq 3(x - 7)?$$

18. _____

19. Solve the inequality and sketch its graph.

$$|3x - 2| \leq 5$$



19. _____
Use graph at left.

20. **Stock Investment** You have \$15,000 available to invest in two stocks, A and B . Write an inequality stating the restriction on A and B .

20. _____

