# Chapter

### Test

### Form A

Name \_\_\_\_\_

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Date \_\_\_\_\_

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



Use graph at left.

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

2. Write the numbers in increasing order.

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

3. State the property that is illustrated.

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

3. Associative

Property of
multiplication

4. State the property that is illustrated.

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

4. Inverse property

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

5. 2+

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

6. \_\_\_68

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

. 44

8. Evaluate the expression to two decimal places.

$$37.15 - 4.55z$$
 when  $z = 3.42$ 

## Chapter 1 Test

#### Form A

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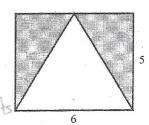
ANSWER Key

9. Solve the equation.

$$\begin{array}{r}
 -x + 3 = 7x + 8 \\
 +x - 8 + 7 - 8 \\
 -5 = 8x
 \end{array}
 \qquad x = -\frac{5}{8}$$

10. Solve the equation.

11. Geometry Find the area of the shaded region.



10. X = 4

12. Write the following expression using exponents.

"x cubed, times 3 to the nth power"

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

$$2(-2)^3 + (2 - 2)^2 = -16 + 16 = 0$$

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.

$$A = 2(7) + 25$$
= 39

15. Temperature Conversion

**Exercision** Solve for 
$$F$$
.

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

$$C = F - 32$$

# Chapter 1 Test

#### Form A

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Name

16. Solve for q.

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

$$8(p^2-3)=14$$
  
 $8=\frac{14}{p^2-3}$ 

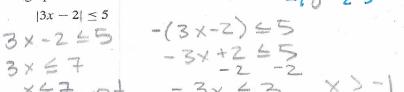
17. Solve the inequality and sketch its graph.

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

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

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

19. Solve the inequality and sketch its graph.



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.



17.  $\frac{\chi < -|}{\text{Use graph at left.}}$ 

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

Use graph at left.

3

20. 0 5 A+B 5 15,000

