NAME

4.

5.

Test, Form 1A

Write the letter for the correct answer in the blank at the right of each question.

- 1. Which property of equality is used to solve -15.75 = 2.5x?
 - **A.** distributive **C.** addition
 - **B.** subtraction **D.** division
- 2. Which statement explains how to solve $\frac{4}{9}x = -\frac{81}{100}$? F. Add $\frac{9}{4}$ to both sides of the equation.
 - **G.** Add $\frac{4}{9}$ to both sides of the equation.
 - **H.** Multiply both sides of the equation by $\frac{4}{9}$.
 - 2. ____ J J. Multiply both sides of the equation by $\frac{9}{4}$.
- 3.

The solution to which equation	n is graphed on the number line?		
< −7 −0	6 −5 −4 −3		
A. $3x + 2.5 = -12.5$	C. $2x - 2.5 = -10.5$		
B. $2x - 2.5 = -7.5$	D. $3x - 2.5 = 17.5$	3	Α
An annual pass covering entrar 2,000 national parks costs \$80. the annual passes is \$12,800 in can you use to find the number	nce fees to more than If the total income from one month, which equation r of passes purchased that month?		
F. $12,800p = 80$	H. $80p = 12,800$		ы
G. 12,800 $-p = 80$	J. $80 + p = 12,800$	4	п
What is the solution to $7x - 10$ A. $x = 3$ B. $x = -3$	Dx = 9? C. $x = \frac{1}{2}$ D. $x = -\frac{1}{2}$	5	В
	3 3		

6. What value of *m* makes the equation $\frac{1}{15} = \frac{3}{5}m$ true? F. $m = \frac{1}{3}$ G. $m = \frac{1}{9}$ H. $m = \frac{1}{5}$ J. $m = \frac{1}{25}$ G 6. 7. Name the first step in solving 2x - 5 = 37.

- A. Add 5 to each side. **C.** Divide each side by 2x.
- **B.** Subtract 5 from each side. **D.** Multiply 2x to each side. 7.

D

1.

Α

Test, Form 1A (continued)

9. What value of *x* makes the following equation true?

$\frac{1}{9}x + 3 = -1$									
	A. $x = -18$	B. $x = -13$	C. $x = -4$	D. $x = -36$	9	D			
10.	The statement, is represented b	s —8, 1s?							
	F. $7 - n = -8$		H. $n - 7 = -8$	}		ы			
	G. $\frac{\pi}{7} = -8$		J. $n - (-7) =$	= -8	10	<u> </u>			
11.	Which equation <i>six less than the</i>	tence, -5?							
	A. $6 - 4n = -3$	5	C. $4n - 5 = 6$						
	B. $-5 - 6 = -$	-4n	D. $4n - 6 = -$	-5	11	D			
12. A true crab has 4 fewer than twice the number of legs that a hermit crab has. The hermit crab has 6 legs. How many legs does the true crab have?									
	F. 1 leg	G. 4 legs	H. 6 legs	J. 8 legs	12	J			
13.	13. Laney buys 3 containers of yogurt. She has coupons for \$0.35 off the regular price of each container. After using the coupons, the total cost of the yogurt is \$3.45. What is the regular price of a container of yogurt?								
	A \$0.80	B. \$1.50	C. \$2.40	D. \$3.10	13	В			
14.	14. What is the solution of the equation $8x + 5 = 4x - 7$?								
	F. $x = -4$	G. $x = -3$	H. $x = -1$	J. $x = 2$	14	G			
15.	15. Fiona earns \$15 for each lawn she mows. Which inequality can be used to find out how many lawns she must mow to earn at least \$135?								
	A. 15 <i>m</i> < 135		C. 15 <i>m</i> ≥ 135						
	B. 15 <i>m</i> ≤ 135		D. 15 <i>m</i> > 135		15	С			
16.	16. Which inequality is graphed on the number line shown?								
-6-5-4-3-2-1 0 1 2									
	F. $x < -3$								
	G. $x \le -3$								
	H. $x \ge -3$								
	J. $x > -3$				16	Н			