NAME	DATE	PERIOD	NUMBER

Math 7A Chapter 8 Test

1. The table shows the membership cost for two CD clubs. How many CDs would you need to buy in a year in order for the total cost of both memberships to be the same?

С	D Club Membe	rship
	Annual Fee	Cost per CD
Club #1	\$50	\$7.50
Club #2	\$35	\$8.00

	50=8x+35
-7.5x	-7.5x
	= 0.5x +35 -35 = 0.5x
0.5	4

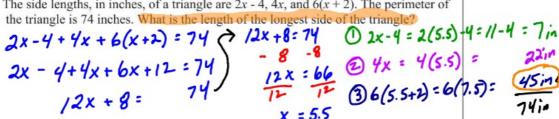
CHECK 7.5(30)+50=8(30)+ 225+50=240+35 275=275	35
30 CDS	

- 2. On Monday, the price of a share of stock was \$79. It fell \$3 each day for 11 consecutive days. Which of the following expressions could you use to find the price of the stock on any one of those days?
- **B.** 3d 79
- (C.) 3d + 79 D. -3d 79
- 3. SHORT RESPONSE Write an inequality to represent the graph below.



x ≤ -9

4. The side lengths, in inches, of a triangle are 2x - 4, 4x, and 6(x + 2). The perimeter of



- 5. Which statement explains how to solve $\frac{4}{9}x = -\frac{81}{100}$?

 A. Subtract $\frac{9}{4}$ from both sides.

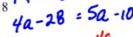
 C. Multiply both sides by $\frac{4}{9}$.

 B. Subtract $\frac{4}{9}$ from both sides.

 D Multiply both sides by $\frac{9}{4}$.

6. Four students solved the equation $\frac{a-7}{10} = \frac{a-2}{8}$, but only one of their solutions checked. What is the correct solution to the equation? 4(a-7) = 5(a-2)A. a = -18B. a = 3C. a = 11D. a = 18 4a - 28 = 5a - 10 4a - 28 = 6a - 10





L			- 1	
	0	=	a	10



9. Which equation can be used to represent the sentence, six less than the product of four and a number is -5 ? A. $6-4n=-5$ B. $-5-6=-4n$ C. $4n-5=6$ D. $4n-6=-5$ 10. What is the solution of the equation $8x+5=4x-7$? $4x+5=-7$ $4x+5=-7$ $4x+5=-7$ $4x+5=-12+-7$ 4	= -36 D X= -3
Which equation can be used to represent the sentence, six less than the product of four and a number is -5 ? A. $6-4n=-5$ B. $-5-6=-4n$ C. $4n-5=6$ B. $-5-6=-4n$ C. $4n-5=6$ D. $4n-6=-5$ 10. What is the solution of the equation $8x+5=4x-7$? $4x+5=-7$ $4x+5=-7$ $4x+5=-7$ $4x+5=-12+7$ $4x=-12$	D X= -3
11. The English department at a high school is selling a collection of poems written by seniors for \$8. It costs \$300 to use the printer plus \$3.25 per book. If they print 600 books, how many do they have to sell to make at least \$2000? $ \begin{array}{cccccccccccccccccccccccccccccccccc$	x=-3
seniors for \$8. It costs \$300 to use the printer plus \$3.25 per book. If they print 600 books, how many do they have to sell to make at least \$2000?	
8× > 4250 5	300 95° 950
x ≥ 531.25	32 BOOKS
No. of the contract of the con	=1.80+3
Solve the formula for F to find a new formula that converts temperatures from Celsius to Fahrenheit. [You will be writing the formula into the form $F = 1$] $\frac{q}{5} \cdot C = \frac{q}{5} \cdot \frac{5}{9} (F - 32)$	= 1.8C+3 9C+32
$\frac{q}{5}.C = \frac{q}{5}.\frac{5}{9}(F-32)$ $\frac{q}{5}.C = F - 32$ $+32$ $\frac{q}{5}.C + 32 = F$	

