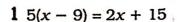
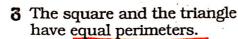
How Can You Visit the Sun Without Burnin

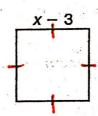
Solve each problem, then cross out the letter next to the correct answer. When you're finished, the answer to the title question will remain.

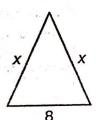


$$27n - 20 = 9(4n + 1)$$



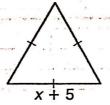
- A. Find the value of x.
- B. Find the perimeter.

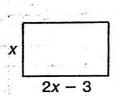




4 The equilateral triangle and the rectangle have equal perimeters.

- A. Find the value of x.
- B. Find the perimeter.





5 The Red Bus Company charges \$150 plus \$72 per hour to rent a bus. The Blue Bus Company charges \$240 plus \$54 per hour.

- A. For what number of hours would the companies charge the same?
- B. What would the charge be for that number of hours?

$$150+72x = 240+54x$$

- 6 Suppose it is 40° inside your refrigerator and 340° inside your oven when the power goes out. The refrigerator temperature starts rising at the rate of 5° per hour. The oven temperature starts dropping at the rate of 45° per hour.
 - A. How long will it take for the temperatures to be the same?
 - B. What will the temperature be then?

$$40 + 5x = 340 + 45x$$

7 Suppose you write a book. The printer charges \$4 per book to print it, and you spend \$5500 on advertising. You sell the book for \$15 a copy.

A. How many copies must you sell to break even (total cost equals income from sales)?

B. What is your income (or total cost) for that many copies?

15x-4x-5500 = 6 Equations, Problems, and Functions:

• 53 • Using Equations with the Variable on Both Sides

F \$6400

70°

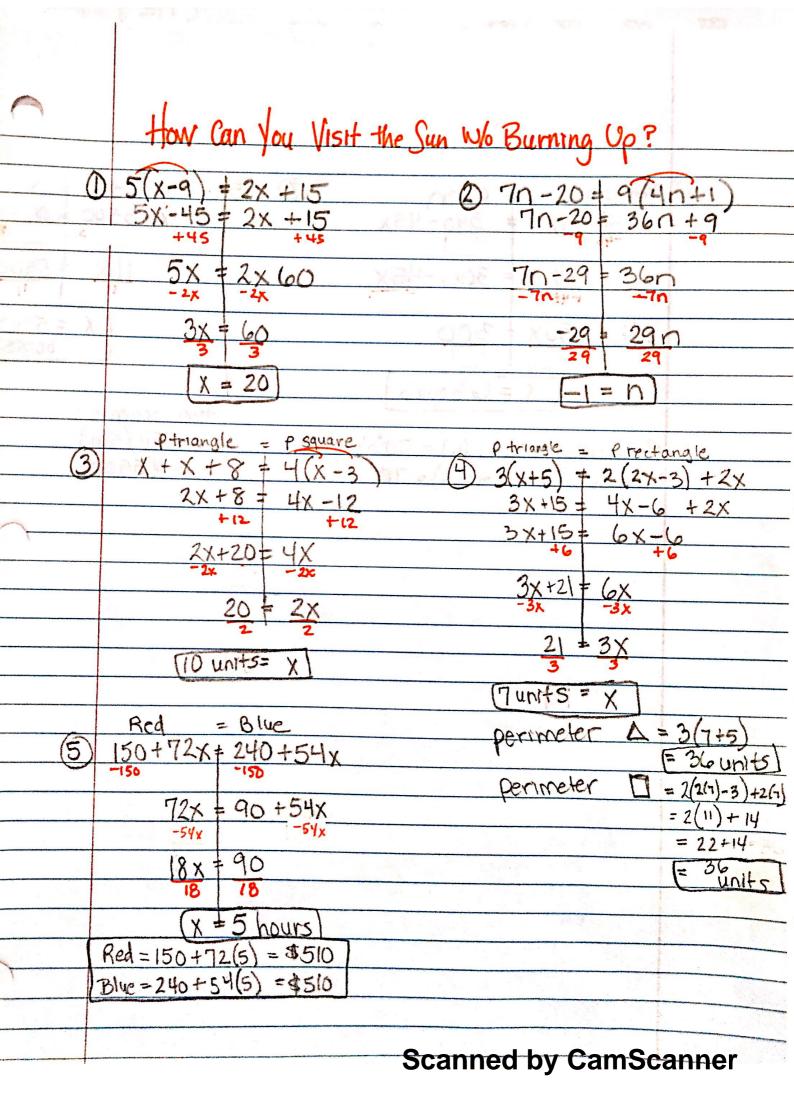
470

10

36

8 h

PUNCHLINE • Bridge to Algebra ©2001, 2002 Marcy Mathworks



				1	
	-				,,
6	Profrigerator + over		5 15.		
	Unigerator + oven	UEV	W 15X	-4x-5500	
-	40+5x = 340-			11x-5500 +5500	+5200
	5X = 300 -	45 x	一へのテク学	WG IIX	5500
		+45×	100	THE THE	11
P	50x = 300 50 50		Call for	X	= 500)
			• 1	U Commonwe	= 500 books
	X = Ghove	cs	103 =)	(1)	
			+	otal income	
A Aces	Befrigerator = 40+5(6) =	70"	12 9	= \$11 (500)	
+ 1,2	oven = 340 - 45(6) =	70° 8-	Alt = > +	= \$ 5500	
2 %	3x - 15 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	51-	- X- + 8+	(\$	
- 0	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-
			AP TUBER		
	The state of the s		NAS 12 NO		
	784 18				
			/x =2 Have	N2	
	1 1 3 3 3 3 1 7 1				
1 1	A Talana		wile) =	600	
7 5	777	· YA	CAL MICHAELY	17 1 ABI (2)	
	17 Van 22/200				
		×		017	
120					
			OF PAR	XI.	
			ZIMAN BIR X		
n i		100			
		ta de la companya della companya della companya de la companya della companya del)
		S	canned b	y CamScai	nner