Name:	Date: Period:
SKILLS PRACTICE 8	-
Solving Equations	Show work Clearly Below
1. a. Write an equation which states that the equals 18.	he expression $x + 3$ (9) $X + 3 = 18$
equals 16.	(b) X=15
b. Solve the equation which you wrote i	in part a.
2. For the expression $x - 8$	$7^{(G)}_{37-8=(29)}$
a. evaluate the expression for $x = 37$.	
	equals 37. EQUATION $[X = 45]$
b. find the value of x if the expression e3. For the expression 8x	9 i i i i i i i i i i i i i i i i i i i
Description of the state of the	78(24) = (192) (2) 8x = 18
a. evaluate the expression for $x = 24$.	$5 = \frac{1}{8} = $
b. find the value of x if the expression e	equals 24. $\chi = 3$ $\chi = 18/8$
c. find the value of x if the expression e	equals t8. $1 \times = 9/1$
	Simpl
Problems That Lead to Equations 1. For the given rectangle, write an express following:	ssion for each of the $P = 2 \times$
Problems That Lead to Equations 1. For the given rectangle, write an express	
 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = x + x + 8 + 8 b. the area = 8x 5. a. Find the perimeter of the given triangle if 	ssion for each of the $P = 2 \times P$ f x is 8. Write an equation and solve.
 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = X + X + 8 + 8 b. the area = 8x 	ssion for each of the $P = 2 \times P$ f x is 8. Write an equation and solve.
following: a. the perimeter = X + X + 8 + 8 b. the area = 8X 5. a. Find the perimeter of the given triangle if P = Perimeter (ft) EQ: P = 8 + 8 + 6 D = 22 b. Find x if the perimeter of the rectangle	ssion for each of the $P = 2 \times P = 2$
 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = X + X + 8 + 8 b. the area = 8X 5. a. Find the perimeter of the given triangle if P = Perimeter (ft) EQ: P = 8 + 8 + 6 EQ: P = 8 + 8 + 6 b. Find x if the perimeter of the rectangle X = Man (ft) 	ssion for each of the $P = 2 \times P = 2$
 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = X + X + 8 + 8 b. the area = 8x 5. a. Find the perimeter of the given triangle if P = Perimeter (ft) EQ: P = 8 + 8 + 6 EQ: 27 = 2X + 2(5) 17/2 = 2x/2. 	ssion for each of the $P = 2 \times P = 2$
 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = X+X+8+8 b. the area = 8x 5. a. Find the perimeter of the given triangle if P = Perimeter (f4) EQ: P = 8+8+6 EQ: P = 2X+2(5) 17/2 = 2X/2 6. a. Find the area of the given rectangle if the perimeter of the given rectangle if the perimete	ssion for each of the OR [ZX + Z(S)] f x is 8. Write an equation and solve. Perimeter is 22 ft is 27. Write an equation and solve. X=8.5 Long th is 8.5ft x is 4.5. Write an equation and solve. X = 8.5 Vrite an equation and solve. X = 8.5 Vrite an equation and solve.
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 Problems That Lead to Equations 1. For the given rectangle, write an express following: a. the perimeter = X+X+8+8 b. the area = 8X 5. a. Find the perimeter of the given triangle if P = perimeter (f+1) EQ: P = 8+8+6 EQ: P = 2X+2(5) I7/2 = 2X/2 6. a. Find the area of the given rectangle if X = length (++) = 4-5++ A = Area (5QFT) 	ssion for each of the P = 2x P

Honors Algebra 1 - Chapter 1 HW #1 SKILLS PRACTICE 10 Problems That Lead to Expressions and Equations Write an expression to describe each of the following. 1. You and your friend are running together. If you run for x minutes and you started 3 minutes before your friend, in terms of x, how FRIEND = X-5 many minutes has your friend run? X = Youe MIN 2. Jane gets \$6.50 more allowance each week than her brother John. TANE = D+6.50 If John get d dollars, in terms of d, how much does Jane get? D= JOHN'S &'S Remember: Give key information, sketch a picture, define variable, define equation, and answer in a sentence 3. Sid's and Tip's Age Problem Sid Upp is 4 years younger than his brother, Tip. Let x stand for Tip's age. X - 4 = 76(b) a. Write the definition of x. Then write an expression for Sid's age. b. Write an equation stating that Sid's age is 76. Find Tip's age by solving this equation. Tip is Soyears X= TIP'S AGE SID'S AGE = X-4 SiDUI 4yrs les **Freshmen Problem** Suppose that $\frac{1}{4}$ of the students in a school are 1. freshmen. Let x stand for the total number of students. Write the definition of x. Then write an expression representing a. the number of freshmen. b. Write an equation stating that the number of freshmen is 312. Find the number of students in the school. C X= Total number of students 1,248 student FRESHMAN =

Vocabulary: It is important to understand the following vocabulary and how the definitions are different. On a separate page clearly explain the following definitions and use examples to illustrate your definitions.

1/4

FRESHMAN

What is the difference in each case? a max no oc Expression and an equation. a. b. Evaluating an expression and solving an equation. Order of operations in $(3 + 4) \times 5$ and in $3 + 4 \times 5$. C. d. Product and a power. Power and an exponent. e. Factors and terms. f. Perimeter of a rectangle and area of a rectangle. g.