NameP	Period Score:
HW 3-5: Writing Two-Step Equations   For each story problem, write an equation and then solve.	
<b>1. CONSTRUCTION</b> Carlos is building a screen door. The height of the door is 1 foot more than twice its width. What is the width of the door if it is 7 feet high?	<b>2. GEOMETRY</b> A rectangle has a width of 6 inches and a perimeter of 26 inches. What is the length of the rectangle?
Equation:	Equation:
Solve:	Solve:
<b>3. EXERCISE</b> Ella swims four times a week at her club's pool. She swims the same number of laps on Monday, Wednesday, and Friday, and 15 laps on Saturday. She swims a total of 51 laps each week. How many laps does she swim on Monday?	<b>4. SHOPPING</b> While at the music store, Drew bought 5 CDs, all at the same price. The tax on his purchase was \$6, and the total was \$61. What was the price of each CD?
Equation:	Equation:
Solve:	Solve:
<b>5. STUDYING</b> Over the weekend, Koko spent 2 hours on an assignment, and she spent equal amounts of time studying for 4 exams for a total of 16 hours. How much time did she spend studying for each exam?	6. FOOD At the market, Meyer buys a bunch of bananas for \$0.65 per pound and a frozen pizza for \$4.99. The total for his purchase was \$6.94, without tax. How many pounds of bananas did Meyer buy?
Equation:	Equation:
Solve:	Solve:
<b>7. HOME IMPROVEMENT</b> Laura is making a patio in her backyard using paving stones. She buys 44 paving stones and a flowerpot worth \$7 for a total of \$73. How much did each paving stone cost?	8. TAXI A taxi service charges you \$1.50 plus \$0.60 per minute for a trip to the airport. The distance to the airport is 10 miles, and the total charge is \$13.50. How many minutes did the ride to the airport take?
Equation:	Equation:
Solve:	Solve:

9) FUND-RAISING	10) DINING
The school puppet club needs \$400 for new puppets	
With only \$250 in their account, they decide to raise	5
the rest by selling candy bars for a profit of \$0.50 pc	er was your friend's lunch?
bar. How many candy bars will they need to sell?	
Equation:	Emerican
	Equation:
Solve:	Solve:
11) FINANCIAL LITERACY	
The cost for a certain music plan is \$9.99 per year	
plus \$0.25 per song you download. If you paid	
\$113.74 one year, find the number of songs you	
downloaded.	
E matiana	
Equation:	
Solve:	
Write an equation for each.	
<b>12.</b> One less than four times a number is 11.	<b>18.</b> The quotient of a number and 2, minus eight is 10.
<b>13.</b> Nine more than three times a number is $-6$ .	<b>19.</b> Nine more than the quotient of a number and 4 is 12.
<b>14.</b> Six less than six times a number is 12.	<b>20.</b> Four less than the quotient of a number and 3 is -10.
<b>14.</b> Six less than six times a number is 12.	<b>20.</b> Four less than the quotient of a number and 5 is -10.
<b>15.</b> Five less than the quotient of a number and 3 is 4	<b>21.</b> The difference between 5 times a number and 3 is 12.
16 Savan increased by twice a number is 1	<b>22.</b> Three less than the sum of a number and 6 is 1.
<b>16.</b> Seven increased by twice a number is 1.	
<b>17.</b> Fifty less six times a number is $-15$ .	<b>73</b> Fight more than the difference of a number and 5 is 3

**23.** Eight more than the difference of a number and 5 is 3.

## **<u>MULTIPLE CHOICE:</u>** Choose the equation that best fits each situation.

- 24) For a membership to an athletic club, it cost \$150 to join and \$28 per month of membership. Write an equation to figure out how many months it will be before the total cost is \$290.
- A) 150 + 28m = 290 B) 150 = 290 + 28m C) 28 + 290m = 150 D) 290 = 150m + 28m
- 25) Translate the following sentence into an equation. Two less than nine times a number is -2.

A) 2-9n = -2 B) -9n - 2 = -2 C) 9n - 2 = -2 D) 9n + 2 = -2

26) Translate the following sentence into an equation. The quotient of a number and -2, less 10, is -18.

A)  $\frac{n}{-2} = -18 - 10$  B)  $10 - \frac{n}{-2} = -18$  C)  $\frac{n}{-2} - 18 = -10$  D)  $\frac{n}{-2} - 10 = -18$ 

27) Translate the following sentence into an equation. Nine is the sum of 1 and two times a number.

- A) 1 = 9 + 2n B) 9 = 1 + 2n C) 9 = 1(2n) D) 9 = 2 + n
- 28) Translate the following sentence into an equation. Then find the number. Seven, added to two times a number, equals -3.
- A) 7 + 2n = -3; -5 B) 7 = -3 + 2n; -5 C) 7 = -3 + 2n; 5 D) 7 + 2n = -3; 5