	Score:
HW 3-4: Writing Two-Step Equations For each story problem, write an equation and then solve.	
1. CONSTRUCTION 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?	2. GEOMETRY 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:
3. EXERCISE 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?	4. SHOPPING 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:
5. STUDYING 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:
7. HOME IMPROVEMENT Laura is making a patio in her backyard using paving stones. She buys 44	8. TAXI A taxi service charges you \$1.50 plus \$0.60 per minute for a trip to the airport. The

- **7. HOME IMPROVEMENT** 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	You and your friend's lunch totaled \$16. Your
With only \$250 in their account, they decide to raise	
the rest by selling candy bars for a profit of \$0.50 pe	
bar. How many candy bars will they need to sell?	The four minutes of the first o
our. How many candy ours will they need to sen:	
Equation:	Equation:
Solve:	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.	
Etion.	
Equation:	
Solve:	
Write an equation for each.	
write an equation for each.	
12. One less than four times a number is 11.	19. The quotient of a number and 2 minus eight is 10
12. One less than four times a number is 11.	18. The quotient of a number and 2, minus eight is 10.
13. Nine more than three times a number is –6.	19. Nine more than the quotient of a number and 4 is 12.
	•
14. Six less than six times a number is 12.	20. Four less than the quotient of a number and 3 is -10.
15 T: 1 4 4 4: 4 C 1 12: 4	21 TI 1:00 1 4 54: 1 12: 12
15. Five less than the quotient of a number and 3 is 4	21. The difference between 5 times a number and 3 is 12.
16. Seven increased by twice a number is 1.	22. Three less than the sum of a number and 6 is 1.
10. Seven mercased by twice a number is 1.	22. Three less than the sum of a number and o is 1.
17 P.O. 1	
17. Fifty less six times a number is –15.	23. Eight more than the difference of a number and 5 is 3.
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MULTIPLE CHOICE: 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)
$$28 + 290m = 150$$

B)
$$150 = 290 + 28m$$
 C) $28 + 290m = 150$ D) $290 = 150m + 28$

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) $9n + 2 = -2$

C)
$$9n - 2 = -2$$

D)
$$9n + 2 = -2$$

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

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

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

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

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)
$$9 = 1 + 2n$$

B)
$$9 = 1 + 2n$$
 C) $9 = 1(2n)$ D) $9 = 2 + n$

D)
$$9 = 2 + n$$

28) Translate the following sentence into an equation. Then solve to find the number. Seven added to two times a number, equals -3.

A)
$$7 + 2n = -3$$
: -5

B)
$$7 = -3 + 2n$$
; -5

A)
$$7 + 2n = -3$$
; -5 B) $7 = -3 + 2n$; -5 C) $7 = -3 + 2n$; 5 D) $7 + 2n = -3$; 5

D)
$$7 + 2n = -3$$
; 5