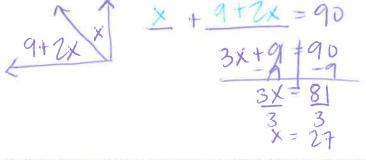
Algebra 1	Name:	<u> </u>
Unit 1 Test Review	Date:	Period:
Remember to study your notes and homework. Show	v all work to receive	credit!!
1. If $(3, y)$ is a solution to the inequality $5x - 3y \le 3$	18, which of the follo	owing is a possible value of y?
	7 \$ 18	Y≥-1
\sim	到 3 一 9	vided by neg, FUT
2. If $3(x+5)-10 \neq -2(x+10)$, what is the value of	of x?	
3x + 5+ -2x -20 $\frac{3x + 5+ -2x - 20}{12x}$ $\frac{5x + 9+ -2x - 20}{5x}$ $\frac{5x + 9+ -2x - 20}{5x}$ 3. Simplify the algebraic expression $\frac{5x + 9+ -2x - 20}{5x}$	X = -5	
3. Simplify the algebraic expression $3x-3-8y$	-0+(-3x)+0	
in an	I wan	
[-8×	-9	
4. The sum of two consecutive even integers is 2	26. Find the two inte	egers.
1st=X $X+X+2=26$	X=12 F	1 VI
2nd = x+2 2x+2 + 76		2914
istrand=210 2x 24		
5. Solve the following inequality for x . $-3(x-5) > 45$ $-3x + 15 + 75$ $-3x + 25 + 30$ $-3x + 30$	Z-10	
Kenny's scores on his last 5 math tests are 85 get on the next test if he wants his average t	5, 92, 81, 92, and 80 o be exactly 86?). What is the score he must
85+92+81+92+80+ rest =	80 430	X=860-6 (86)
7. Seven times the quantity of a number and 5 than a number. Solve for the number. 7 (x+5) > 2 (x-5) > 5 x 7x+35 > 2x - 10	44	imes the quantity five less
8. Two angles are complementary. The larger and Find the measure of the larger angle.	ngle is nine more that	n twice the smaller angle.



9.	Which	of the	inequalities	below	represents	the	second	step	of the	solution	process

B

Step 1:
$$5(x-2) \le -3(2x-6)$$

Step 2: $5x-\sqrt{0} \le -(\sqrt{x}+1)$
Step 3: $11x \le 28$

Step 4:
$$x \le \frac{28}{11}$$

$$5x + 10 \le -6x + 18$$

$$5x - 10 \le -6x + 18$$

$$5x - 10 \le -6x - 18$$

D.
$$5x - 10 \le 6x + 18$$

10. Solve the following equation for y:

$$-2x - 5y = 15
-5x = 15 - 2x
-5 = 15 - 2x
Y = 15 - 2x$$

12. An equation is modeled below using algebraic tiles

11. Solve the following equation for x.

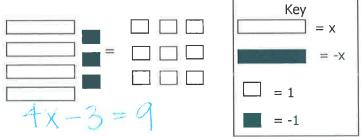
$$2 \cdot \frac{8-4x}{2} = (-2x+3)2$$

$$8-4x \neq 2(-2x+3)$$

$$8-4x \neq -4x + 4$$

$$+4x + 4x + 4x$$

$$8 \neq 6 \quad | NO SOLUTION |$$

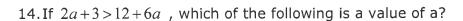


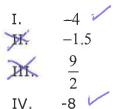
Which of the following models the solution to the above equation?

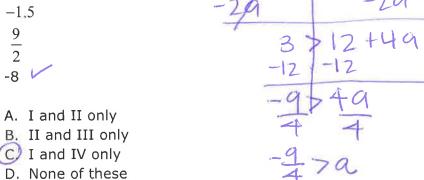
4x-3+9 +B+3 +X+12 +X=3

13. Write the following verbal expression as an algebraic expression. "Thirty less than the product of a number and six"

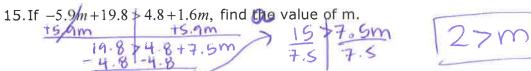
UX-30

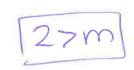




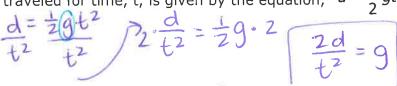


- C I and IV only
 - D. None of these





16.A basketball was dropped from the top of the bleachers. The distance, d, that the basketball traveled for time, t, is given by the equation, $d = \frac{1}{2}gt^2$. Solve the formula for g.



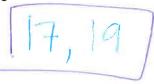
17. The sum of two consecutive odd integers is 36. Find the integers

$$15t = X$$

$$2nd = X + Z$$

$$x + x + 2 = 36$$

 $2x + 1 = 36$



17. The sum of the light of th

A.
$$x = 0$$

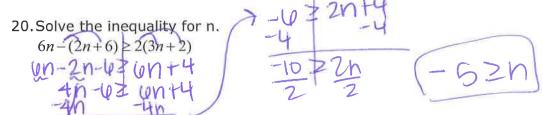
D.
$$x = \frac{3}{2}$$

A.
$$x = 0$$
B. Infinite solutions
C. No solution
$$x = \frac{3}{2}$$

19. The United States uses the Fahrenheit system for temperature whereas the United Kingdom uses the Celsius system. The formula $F = \frac{9C}{5} + 32$ can be used to convert from temperatures in Celsius, C to Fahrenheit, F. Solve the equation above for C, degrees Celsius.

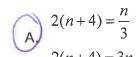
$$5(F-32)=9C$$

 9
 $5(F-32)=C$



21. Translate the following verbal sentence into an algebraic equation.

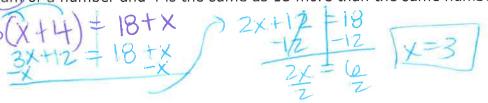
Twice the sum of a number and four is equal to the quotient of the same number and three.



$$2n+4=\frac{n}{3}$$

$$2(nA)=3n$$

22. Three times the sum of a number and 4 is the same as 18 more than the same number. What is the number?



23.A student tried to solve the following equation but made a mistake.

Distribute

Step 1:
$$9-5(2x+1)=-28$$

Step 2:
$$4(2x + 1) = -28$$

Step 3:
$$8x + 4 = -28$$

Step 4:
$$8x = -32$$

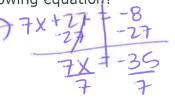
Step 5:
$$x = -4$$

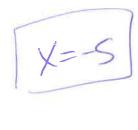
In which step did the mistake first appear?

- A. Step 2
- B. Step 3
- C. Step 4
- D. Step 5
- 24. What is the solution to the following equation?

$$3(x+11)-6 = -4(x+2)$$

 $3x+33-6 = -4x-8$
 $3x+27 = -4x-8$
 $+4x$





25.On the first day of the month, Jessica had \$900 in her savings account and started spending \$10 a week. Her friend Karina had \$500 and started saving \$15 a week. After how many weeks will the friends have the same amount?

Round your answer to the nearest tenth.

Jessica: 900-10X Kavina: 500+15X

