Nai	ne:		Date:	
1.	Simplify the expression	2x(5+y).	5. If $t = 11$ and $s = 5$ , evaluate the following expression: $3t - 5s$	
	A. $7x + y$	B. $7x + 2xy$	A. 8 B. 4 C11 D. 2	3
	C. $10x + y$	D. $10x + 2xy$		
2.	For what value of x will statement?	$11 \ 3x + 4 = x - 6$ be a true	6. What is the value of the expression 0.05x + 0.10y + 0.25z when $x = 2$ , $y = 3$ , and z	z = 4?
	A. $x = -5$	B. $x = -\frac{5}{2}$	A. 1.00 B. 1.40 C. 3.60 D. 9	.40
	C. $x = -1$	D. $x = -\frac{1}{2}$		
3.	Simplify: $6(2x + 3y) + 3$	B(x-y)	7. Solve each of the unknowns in the equations below: x - 76 = 102	S
	Δ Qr	B = 12r - 13v		
	C. $15x + 15y$	D. $12x + 15y$ D. $12x + 15y$	A. 26 B. 34 C. 36 D. 1'	78
4.	Simplify: $6b + 4a + 3a + 3a + 4b + 7a$	– 2 <i>b</i>	8. Which value for <i>R</i> makes the number senten below true? $R \div 14 = 32$	ce
	C. $9a - 2b$	D. $10a + b$	A. 8 B. 13 C. 56 D. 4	48

- 9. What value of r makes  $\frac{r}{-11} = -3$  true?
- 13. What is the solution to the inequality x 5 > 14?

A. 
$$x > 9$$
B.  $x > 19$ 

C.  $x < 9$ 
D.  $x < 19$ 

- 10. Solve this equation, show your work, and choose the best answer: 5x + 8 = 18
  - A. x = 2 B.  $x = 5\frac{1}{5}$
  - C. x = 5 D.  $x = \frac{1}{2}$

- 11. Solve: 4(6x 10) = 8x + 40
  - A. 0 B.  $\frac{5}{2}$  C.  $\frac{25}{8}$  D. 5

12. Solve for x.

3x + 7 = 2x.

- A.  $x = \frac{5}{7}$  B.  $x = -\frac{5}{7}$
- C. x = -7 D. x = 7

14. Look at the inequality below.

 $-2x \le 6$ 

Which of these *best* describes the solution of this inequality?

A.	$x \ge -3$	В.	$x \leq -3$
C.	$x \ge 3$	D.	$x \leq 3$

15. Use the line graph below to answer the question that follows.

	1	T.	ī	T	~		- T			
-8	-7	-6	-5	-4	-3	-2	-1	0	1	2

What is the solution set of the graph above?

A. x < -3 B.  $x \le -3$ 

C. 
$$x > -3$$
 D.  $x^3 - 3$ 



17. The average high temperature on the first day of January in Don's hometown in Canada is 1 degree Fahrenheit. This year, the high temperature on the first day of January was less than 1 degree Fahrenheit. Which number line shows all the possible temperatures it could have been that day?

A. 
$$\begin{array}{c} & & & & & & & \\ \hline & & & & \\ \hline & & -3 & -2 & -1 & 0 & 1 & 2 & 3 \\ \end{array} \\ B. & & & & \\ \hline & & & \\ \hline & & -3 & -2 & -1 & 0 & 1 & 2 & 3 \\ \end{array} \\ C. & & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ \end{array} \\ D. & & \\ \hline & & \\ \hline & & \\ \hline & & \\ \hline \end{array} \\ \begin{array}{c} & & & \\ \hline & & \\ \hline & & \\ \end{array} \\ \end{array}$$

18. The lengths of the sides of a triangle are y, y + 1, and 7 centimeters. If the perimeter is 56 centimeters, what is the value of y?



The length of the rectangle above is 6 units longer than the width. Which expression could be used to represent the area of the rectangle?

A. 
$$x^2 + 6x$$
 B.  $x^2 - 36$ 

C.  $x^2 + 6x + 6$  D.  $x^2 + 12x + 36$ 

- 20. Which list is given in order from least to greatest?
  - A. 001, .292, .034, .010
  - B. 2.0, 0.303, 4.57, 56.7
  - C.  $\frac{3}{4}, \frac{7}{8}, \frac{12}{28}, \frac{17}{100}$
  - D.  $\frac{1}{10}, \frac{3}{8}, \frac{1}{2}, \frac{7}{8}$