Name _____ Date _____

Assigned 9/20/19
Due 9/23/19

2.4 Puzzle Time

Where Do Young Tigers Swim?

Write the letter of each answer in the box containing the exercise number.

Solve the inequality.

1. $4x - 7 < 9$
2. $-11 > 10 - 7x$
3. $\frac{x}{6} + 5 > 8$
4. $-\frac{x}{2} + 12 \geq 14$
5. $6x - 23 > 25$
6. $6 - \frac{x}{5} \geq -2$
7. $3 \geq -3(x - 13)$
8. $16 - 4x > 9 - 5x$
9. $2x + 7 \leq 2x + 8$
10. $-6(x - 1) < -14(x - 5)$
11. $12x + 4x - 11 \geq 16x + 17$
12. $3(1 - x) + 10x \leq 9(x - 2) + 7$
13. The students in charge of the class booth at a carnival would like to earn \$3 for every item they sell. They spent \$55 for the materials to make the items. Solve the inequality $3x - 55 \geq 65$, which represents how many items they need to sell to make a profit of at least \$65.
14. A triangle has a base of 14 centimeters and a height of $(3x - 4)$ centimeters. The area of the triangle is greater than 56 centimeters. Solve the inequality $\frac{1}{2}(14)(3x - 4) > 56$ to find the possible values of x.

Answers

N. all real numbers
K. $x \geq 7$
P. $x < 8$
E. $x > 3$
O. $x < 4$
I. $x > 8$
O. $x \geq 40$
Y. $x \leq -4$
T. $x > 4$
L. $x > -7$
T. no solution
H. $x \geq 12$
I. $x \leq 40$
T. $x > 18$

5	9		3	7	2		12	6	14	11	4		10	1	13	8