triangle puzzles (if time)

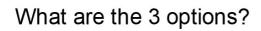
3B.
$$5h \le 12 + 4h$$

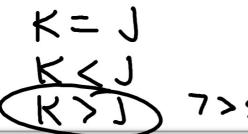
$$-4h$$

$$-4h$$

$$-5h$$

$$-7h$$





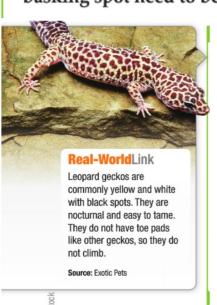


| ConceptSummary | Phrases for Inequalities | | | |
|----------------------|---------------------------|-------------------------------------------------|--------------------------------------------------|--|
| < | > | _ ≤ | ≥ | |
| less than fewer than | greater than more than | at most, no more than, less than or equal to | at least, no less than, greater than or equal to | |

PT

Real-World Example 4 Use an Inequality to Solve a Problem

PETS Felipe needs for the temperature of his leopard gecko's basking spot to be at least 82°F. Currently the basking spot is 62.5°F. How much warmer does the basking spot need to be?



$$62.5 + 7 \ge 82$$

-62.5 + ≥ -62.5
+ ≥ 19.5

$$\frac{30}{2n > n + 9}$$

$$\frac{-1n}{1n > 9}$$

$$\frac{-1n}{31}$$

$$\frac{31}{31}$$

32.
$$3n + -4 \ge 2n + 8$$

 $3x + -4 \ge 2x + 8$
 $-2x$
 $x + -4 \ge 2x + 8$
 $-2x$
 $x + -4 \ge 8$
 $x + -4 \ge 8$
 $x + -4 \ge 8$
 $x + -4 \ge 12$

$$6n-8 < 5n+21$$

 $-5n+8$
 $-5n+8$