Unit 6: Inequalities	Name:
Lesson 6: Solving Story Problems Using Inequalities	Hour:
Notes 6.6	

Steps for Solving Story Problems

- 1) Read the Problem
- 2) Identify the Question What are they asking for? fighlight it.
- 3) Find the Important Information under time 1+
- 4) Write an Inequality
- 5) Solve the Inequality
- 6) Answer the Question-labelit, Write in a sentence

Solving Story Problems

1. Mrs. Corie wants to order DVDs from the Amazon. Each DVD costs \$15.99 and shipping for the entire order is \$9.99. Mrs. Corie only has \$100 to spend. How many DVDs can Mrs. Corie order without exceeding her \$100 limit?

Shipping + DVDS
$$\leq$$
 total ant | 9.99 + 15.99x \leq 100.00 | 9.99 | 15.99x \leq 9.01 | 15.99 | X \leq 5.62



Plus

2. You are collecting sponsors for a 10-miles walk. So far, you have collected \$230 in donations. How much must the last sponsor pledge per mile to reach or exceed your goal of \$300?

amt already + amt going to pledge
$$= 230 + 10 \times 2300 = 230$$

They must pledge at least

3. Charlie is getting ready to celebrate his 13th birthday and he wants to have a party. Chuck E Cheese charges a \$50 fee for a birthday party and \$5.50 for each person. Zap Zone charges an \$80 fee for a birthday party and \$3 for each person. After how many people would be it cheaper for Charlie to have his party at Zap Zone?

Chuck E
$$\geq Zap Zone$$

 $50 + 5.90 \times Z 80 + 30 \times \frac{50}{50} \times \frac{5}{50} \times \frac{2}{30} \times \frac{30}{2.5} \times \frac{2}{2.5} \times \frac{30}{2.5} \times \frac{2}{2.5} \times \frac{2}{2$

it would 13 take _ 13 people for zz to be cheaper

4. Cassidy has \$500 in her savings account at the beginning of summer. She wants to have at least \$150 in her savings by the end of summer. She withdraws \$30 from her account each week to pay for her weekly activities. How many weeks can Cassidy withdraw money from her account?

X = #of Weeks

it would take_!! Weeks

5. Tickets to the Toledo Mud Hens games are \$12 each, and season tickets are \$396 for the same type of seat. Parking is \$5 per game. How many times do you have to use the season pass for the total cost of the season ticket option to be less than the total cost of the individual-game ticket option?



You'd have to go to @ least 24 games

Homework: Inequality Story Problems Extra Practice wkst.