

Unit 3 LT3 Notes and Practice Part 2

LT 3: SWBAT write, solve, and graph linear inequalities from a real-life situation.

Success Criteria:

Quick Check

1. The most expensive MacBook, iPhone, and Apple watch that Apple sells are listed below. Write an inequality for each device d , that represents the cost of all the other MacBook's, iPhones, or Apple Watches that Apple sells.

MacBook



\$1500

iPhone



\$1200

Apple Watch



\$600



Quick Review:

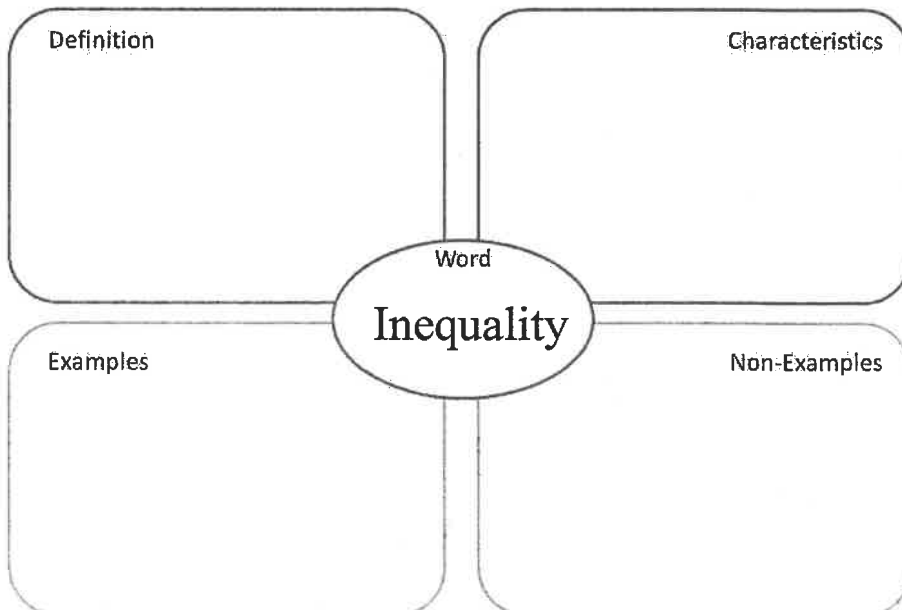
2. Suppose Disney World is offering a deal for the holidays. You can enter their park from only \$75 a day. This will be the cheapest the admission to Disney World will be all year. Write an inequality that represents the possible costs of admission (a) after this deal ends.

3. Write the sentence as an inequality, and graph the solution.

The cost y of a new iPhone is at most \$1200



Vocab Quick Check:



Example 1:

You earn \$9.50 per hour at your summer job. You need \$247 to buy Air pods.

- a. Write and solve an inequality that represents the number of hours h needed to work in order to buy your Air pods.
- b. Suppose you work 30 hours. Do you have enough money to buy your air pods?

You Try:

You earn \$10.25 per hour at your summer job. You need \$369 to buy Air pods.

- a. Write and solve an inequality that represents the number of hours h needed to work in order to buy your Air pods.
- b. Suppose you work 35 hours. Do you have enough money to buy your air pods?

Example 2:

Devan wants to go skating for his birthday. It costs \$7 to rent skates and \$4 for every hour of skating.

- a. Write an expression that represents the amount of money Devan has spent after skating for h hours.
- b. Now suppose Devan has at most \$25 to spend. Create an inequality that represents how many hours Devan can skate.
- c. How many hours can Devan skate for? (Solve the inequality)

Exit Ticket

Laura saved up \$50 for a new PS4 and plans to save an additional \$35 per week. The PS4 costs \$338.75. Write an inequality that represents how many weeks Laura must save up for to have AT LEAST the \$338.75 for her PS4.

