

FRONT: the boundary where two air masses meet.

COLD FRONT

- warm air will rise up + over cool air.
- cool air is the BULLY (H) takes the place of warm air.

* cumulonimbus clouds

heaping Rain



→ powerful storms w/ wind

S: thunderstorms

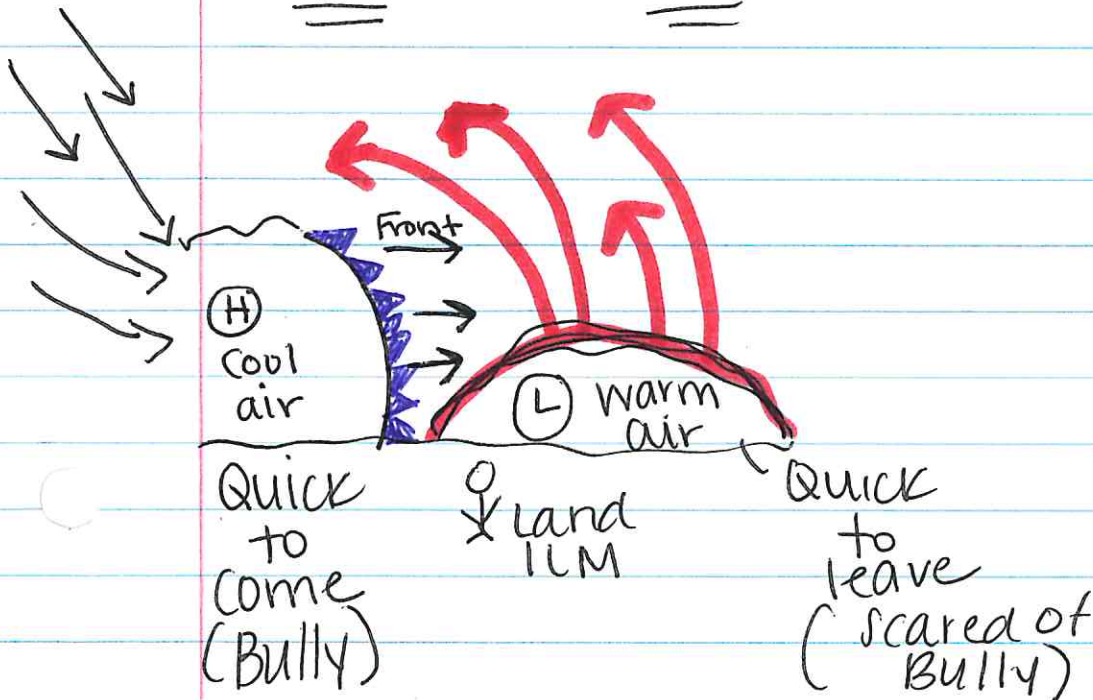
W: snowstorms

→ Fast cold + slow ~~warm~~ warm = Tornadoes (land)

• extreme winds

• hail

→ Fast cold + Fast warm May → June



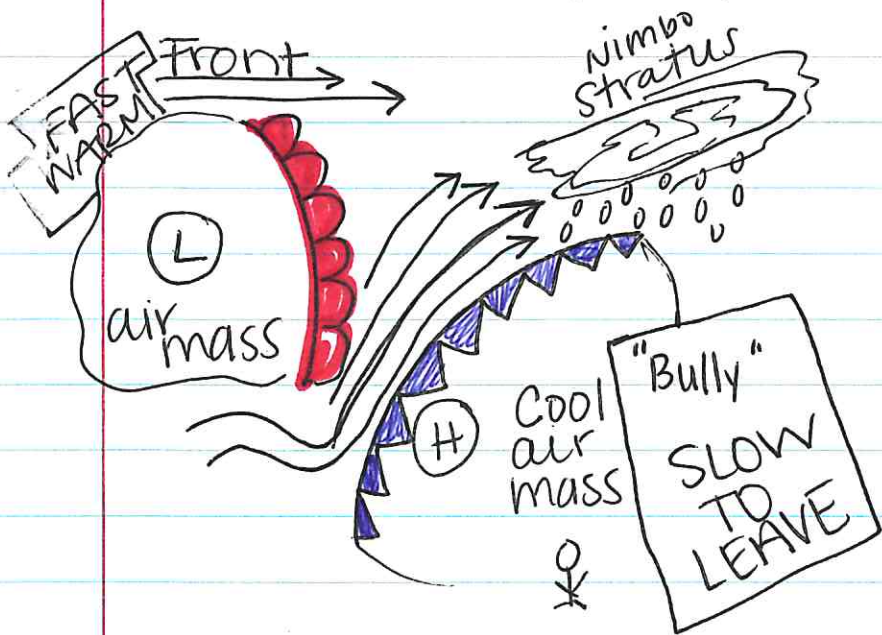
Warm Front

Low Pressure Airmass

- rainy, drizzly weather
- followed by warm, clear weather
- Stratus, nimbostratus clouds

Fast Warm + ^{→ very slow} slow Cold

- warm air meets cold air & rises over it.



* After a warm front comes through an area - the temp. ↑.

2 cool air masses

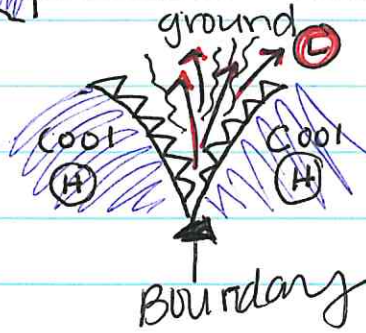
Occluded Front

→ Fast Cold + Slow Warm

- cold air masses move toward EACH OTHER + the warm air mass between is pushed up and rises.



plenty of rain
or snow



TWO COOL air masses push against each other to create a storm

→ Two Bullies ←

→ put somewhere for a while

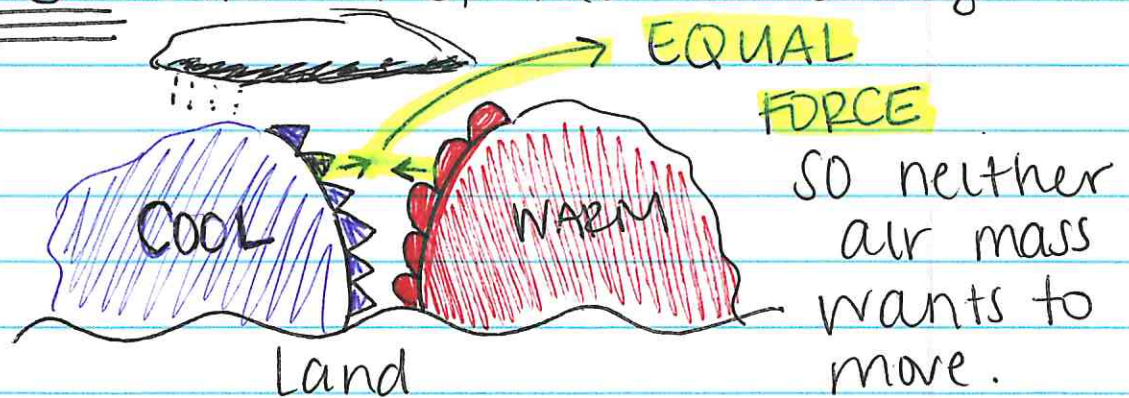
Stationary Front

• When 2 air masses meet BUT both are weak + do not have any energy to push against each other.

• No/low energy = low wind.
wind is what moves air mass.
wind is connected to convection

- Overcast skies (cloudy)
- Nimbostratus clouds

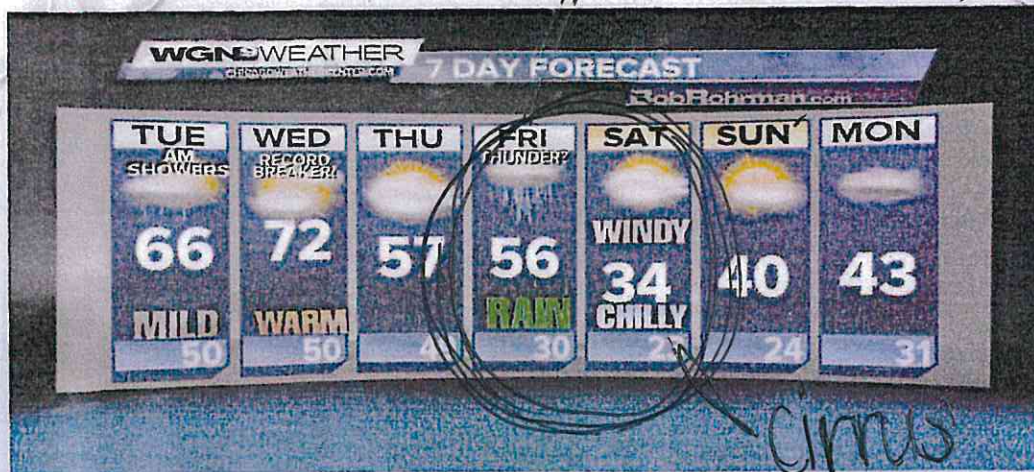
• LEAST amount of weather change.



→ front will last for days
with CLOUDS + possible RAIN!

→ Cold mass meets warm mass!

(H) has settled in

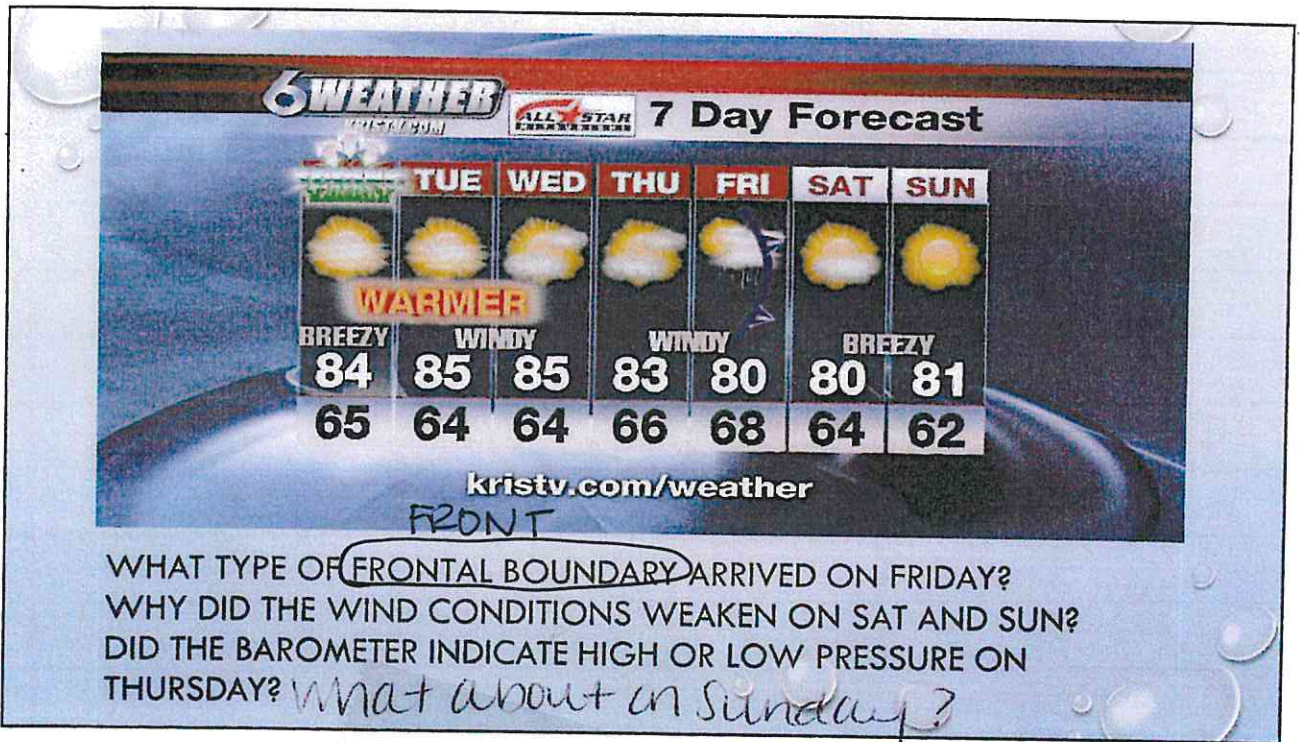


BASED ON FRIDAY AND SATURDAY'S WEATHER, WHAT INFERENCE CAN BE MADE REGARDING THE FRONT AND PRESSURE SYSTEM?

WHICH DAY WOULD HAVE THE LEAST AMOUNT OF CLOUD COVERAGE? Why?

① By Friday and Saturday a cold front that brings RAIN, CUMULONIMBUS clouds THUNDER, COLD TEMPS will come through the area. A High Pressure system will bring clear skies by Sunday

② Sunday will provide low cloud coverage BECAUSE a (H) pressure system has settled over the area.



① On Friday a (H) pressure, cold front arrived.

② Wind conditions weakened because the pressure system was starting to settle.

③ Thurs: 29.5 to indicate a change in weather

④ Sunday, the cold front brought a (H) pressure system with clear skies and dry air mass.



EXPLAIN WHY THERE WAS PRECIPITATION LIKELY ON THURSDAY?
 WHICH DAYS OF THE WEEK WOULD THE BAROMETER READ THE
 HIGHEST AIR PRESSURE?

By Wednesday, what type of front is
 coming through the area again?

On Thur high % chance rain because a (H) system was coming. The weather is breezy on Friday b/c of weather change. Sat & Sun a cold front with a (H) system has settled. Bringing clear skies and cooler temperatures. Sat-Monday the barometer would read at a high pressure 30-31. Tues and Weds our temps start to rise b/c a warm air mass with a (L) system is approaching. The Barometer would most likely read 29.5 to show a change in weather.